

OFF-SITE PLAN SHEET INDEX

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INCLUDED IN THIS SET

# RECORD DRAWINGS OF CHILLED WATER LINES

TO SERVE:

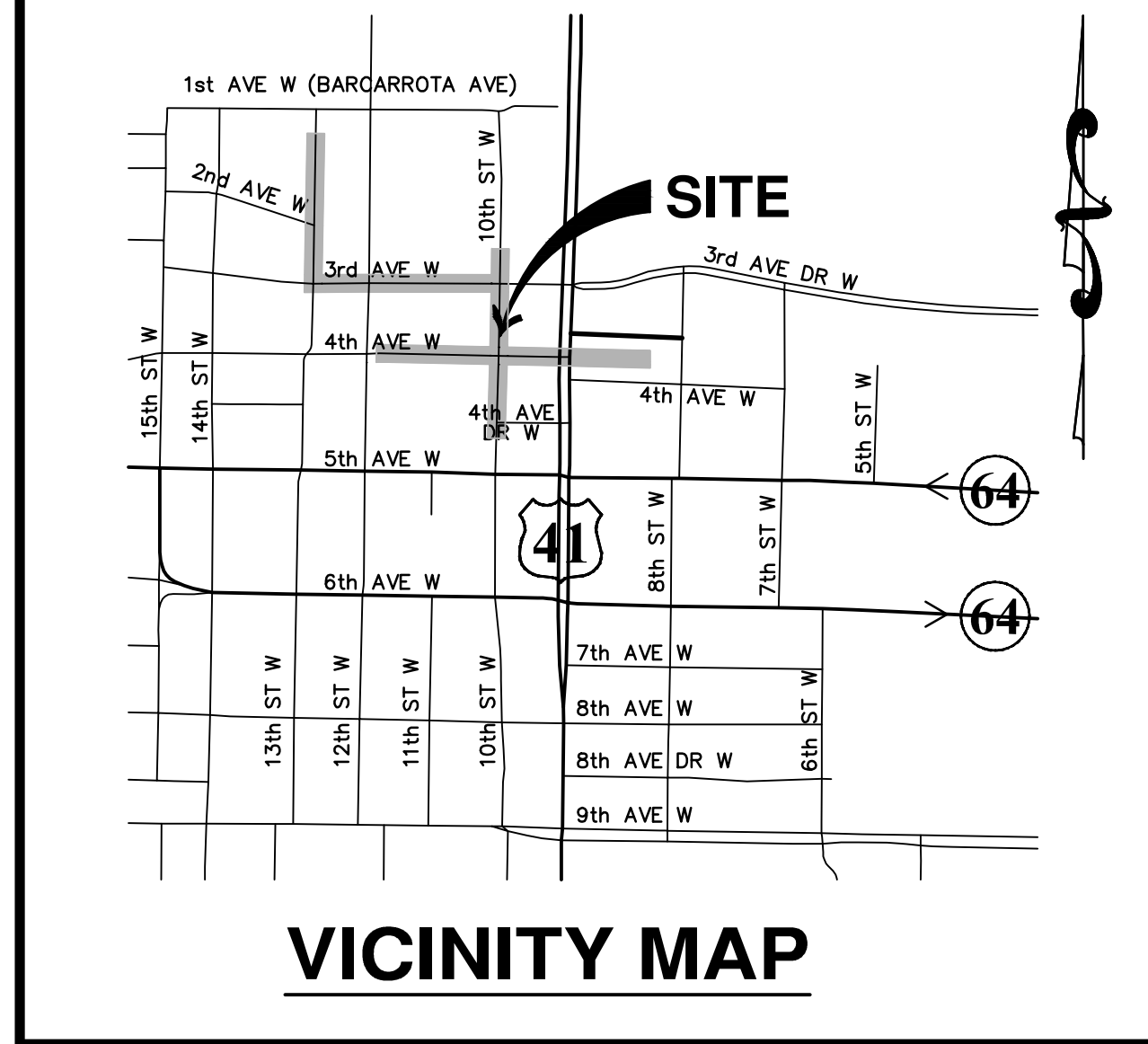
# MANATEE COUNTY DISTRICT COOLING PLANT

LOCATED IN:

SECTION 26, TOWNSHIP 34 SOUTH, RANGE 17 EAST  
CITY OF BRADENTON, FLORIDA

ZONED:

FLOOD ZONE: 'X'  
ZONING: 'T6'



VICINITY MAP

RECORD DRAWING NOTES:

1. ALL RECORD DRAWING INFORMATION SHOWN IN ITALICS.
2. ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM. MANATEE COUNTY BENCHMARK Pid # DL1768 LOCATED AT N.1150998.08 E.469907.05 NAD 1983/2011 AND 27 29 56.7 (N) LAT. 082 34 28.5 (W) LONG. SEE SHEET C3 FOR PLAN VIEW LOCATION AND DETAILS. ELEVATION = 5.00.
3. GRAPHICAL SYMBOLS OF UTILITIES ARE EXAGGERATED FOR CLARITY.
4. ALL VALVES NOTED ON CONSTRUCTION PLANS ARE AMERICAN FLOW CONTROL SERIES 2500.
5. ALL WATER MAINS WERE INSTALLED WITH (HDPE) SDR 11 MATERIAL.
6. ALL ASBUILT ELEVATIONS ARE TO THE ACTUAL TOP OF PIPE OR FITTING EXCEPT AT DIRECTIONAL BORE LOCATIONS WHERE CASINGS ARE NOTED. ASBUILT ELEVATIONS ARE TO THE TOP OF CASING AT THOSE PARTICULAR LOCATIONS.

## NOTES

1. THE CHILLER PLANT SITE IS CURRENTLY ZONED 'T6' AND IS OCCUPIED BY MANATEE COUNTY. A PARKING LOT OWNED BY MANATEE COUNTY.
2. THE SITE IS DESIGNATED AS FLOOD ZONE 'X' ON F.I.R.M. PANEL #12081C-0302E, DATED 03/17/2014, AND IS NOT LOCATED WITHIN A FLOODWAY.
3. THERE ARE NO KNOWN WELLS WITHIN THE BOUNDARIES OF THIS PLAN.
4. INFRASTRUCTURE CONSTRUCTION WILL COMMENCE NOVEMBER 2014.
5. SANITARY SEWER AND POTABLE WATER WILL BE CONSTRUCTED TO THE LATEST CITY OF BRADENTON STANDARDS AND PRIVATELY MAINTAINED.
6. SOLID WASTE DISPOSAL WILL BE PROVIDED BY CITY OF BRADENTON.
7. NOTIFY CITY OF BRADENTON PUBLIC WORK PRIOR TO THE INITIATION OF CONSTRUCTION. A PRE CONSTRUCTION INSPECTION OF THE SEDIMENTATION AND EROSION CONTROL (S&EC) DEVICES MAY BE REQUIRED AND WILL BE THE OPTION OF THE PUBLIC WORKS STAFF.
8. ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM.

ENGINEER'S CERTIFICATE

I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND BASED ON THE CERTIFICATION PROVIDED BY THE SURVEYOR OF RECORD, THE IMPROVEMENTS DEPICTED HEREON HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. THE UNDERSIGNED ENGINEER IS NOT CERTIFYING THE ACCURACY OF THE DRAWINGS PREPARED BY THE SURVEYOR.

ZNS ENGINEERING, L.C.  
BRADENTON, FLORIDA 34206  
P.O. BOX 9448  
DATE OF CERTIFICATION : 04/03/2015

NATHAN J. KRAGT P.E. #69272

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN, SUPERIMPOSED UPON THE DESIGN CONSTRUCTION PLANS ARE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, AND BASED ON OBSERVED IMPROVEMENTS. A TRUE AND CORRECT REPRESENTATION OF THE IMPROVEMENTS AS SHOWN.

ZNS ENGINEERING, L.C.  
BRADENTON, FLORIDA 34206  
P.O. BOX 9448

DATE OF FIELD WORK: 03/17/15 DATE OF CERTIFICATION: 04/03/15

*J. N. Gatch*  
JAMES N. GATCH JR. P.S.M. #1235



PREPARED FOR:

B&I CONTRACTORS  
2701 PRINCE STREET  
FORT MYERS, FLORIDA 33916  
(239) 332-4646

PROJECT DATA:

JOB NAME: MANATEE COUNTY DISTRICT COOLING  
SITE ADDRESS: 323 9th STREET WEST, BRADENTON, FL 34205  
JOB NUMBER: 43737  
DATE: 7/1/2014

NATHAN J. KRAGT  
PROFESSIONAL ENGINEER #69272

SIGNATURE

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SHEET C1

Barcarrota Boulevard  
1st Avenue West

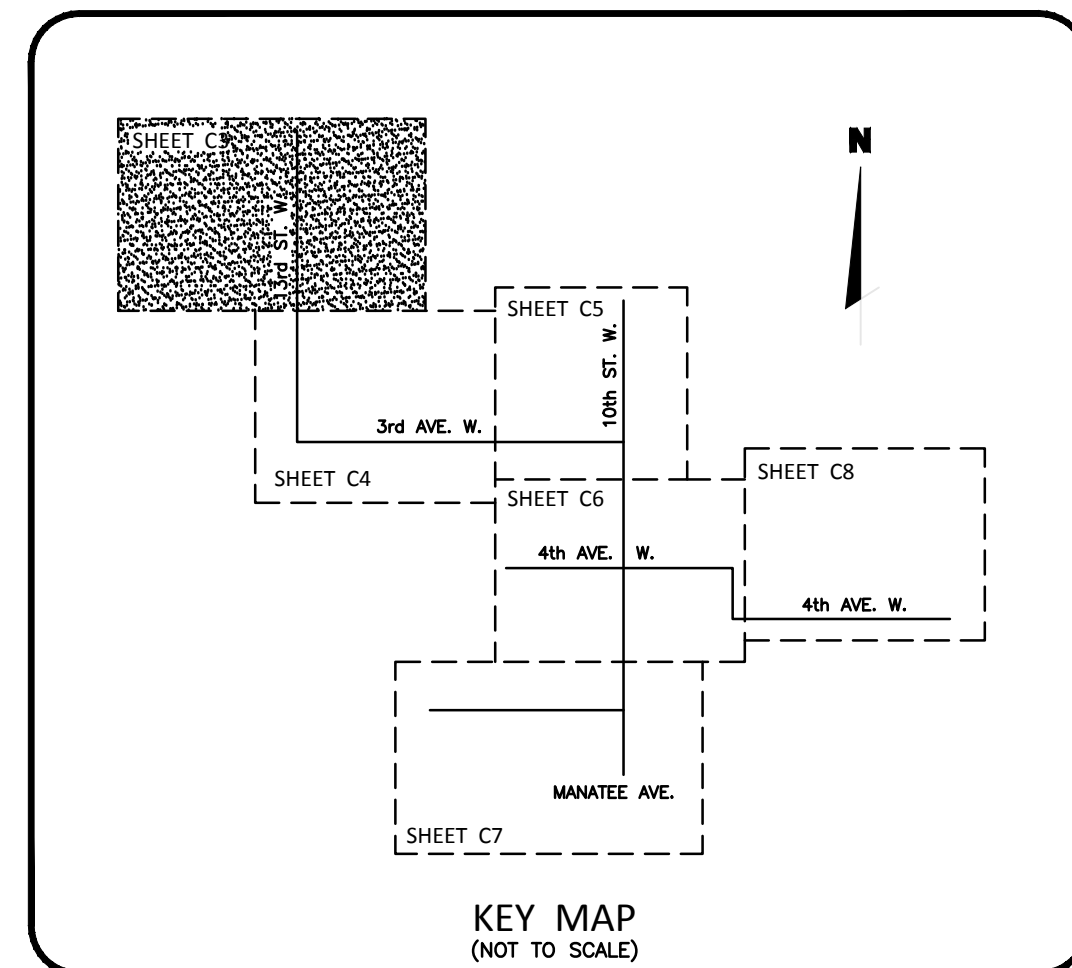
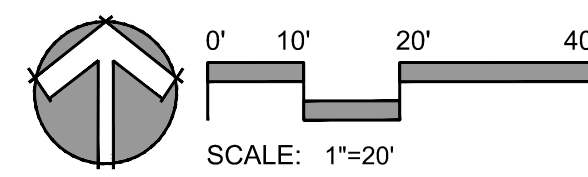
MANATEE COUNTY BENCHMARK  
Pid # DL1768, N.A.V.D. 1988  
ELEV. = 5.00, TOP OF A ROUND  
CONCRETE BASE THE SUPPORTS AN  
ALUMINUM LIGHT POLE. 174.5 FEET  
WEST OF THE CENTERLINE OF 13TH ST. W.  
AND 50.0 FEET SOUTH OF THE CENTERLINE  
OF BARCARROTA BLVD. NEAR THE SIGN  
OF THE MANATEE CENTRAL LIBRARY.

ACRONYM LEGEND:

- L - LEFT
- R - RIGHT
- EL. - ELEVATION
- WL - WATER LINE
- GV - GATE VALVE
- T.O.N. - TOP OF NUT
- 45 - 45° BEND
- 90 - 90° BEND
- RED. - REDUCER

RECORD DRAWING NOTES:

1. ALL RECORD DRAWING INFORMATION SHOWN IN ITALICS.
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3. GRAPHICAL SYMBOLS OF UTILITIES ARE EXAGGERATED FOR CLARITY.
4. ALL VALVES NOTED ON CONSTRUCTION PLANS ARE AMERICAN FLOW CONTROL SERIES 2500.
5. ALL WATER MAINS WERE INSTALLED WITH (HDPE) SDR 11 MATERIAL.
6. ALL ASBUILT ELEVATIONS ARE TO THE ACTUAL TOP OF PIPE OR FITTING EXCEPT AT DIRECTIONAL BORE LOCATIONS WHERE CASINGS ARE NOTED. ASBUILT ELEVATIONS ARE TO THE TOP OF CASING AT THOSE PARTICULAR LOCATIONS.



**FPL Services, LLC**  
Development & Construction  
WEST PALM BEACH, FLORIDA 33407  
Tel: 305.552.4893  
www.fpl.com

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS SUBMITTED HERewith COMPLY WITH EXISTING INTERPRETATIONS AND PROVISIONS OF THE APPLICABLE BUILDING CODES. THIS DRAWING IS THE SOLE PROPERTY OF "FPL SERVICES, LLC" AND IS AN INSTRUMENT OF SERVICE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF FPL SERVICES, LLC.

I, NATHAN KRAGT, P.E. #69272, CERTIFY THAT I CURRENTLY HOLD AN ACTIVE LICENSE IN THE STATE OF FLORIDA AND AM COMPETENT THROUGH EDUCATION OR EXPERIENCE TO PROVIDE ENGINEERING SERVICES IN THE CIVIL DISCIPLINE CONTAINED IN THIS PLAN. I FURTHER CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE AS DEFINED IN CHAPTER 6105-18.001 F.A.C. MOREOVER, I CERTIFY THAT THE COMPANY OFFERING THE ENGINEERING SERVICES, "ZNS ENGINEERING, L.C." HOLDS AN ACTIVE CERTIFICATE OF AUTHORIZATION #27476 TO PROVIDE THE ENGINEERING SERVICE.

NATHAN J. KRAGT  
PROFESSIONAL ENGINEER #69272

**RECORD DRAWING OF CHILLED WATER LINES**  
MANATEE COUNTY GOVERNMENT  
DISTRICT COOLING PLANT  
3223 9TH STREET WEST  
BRADENTON, FLORIDA 34205

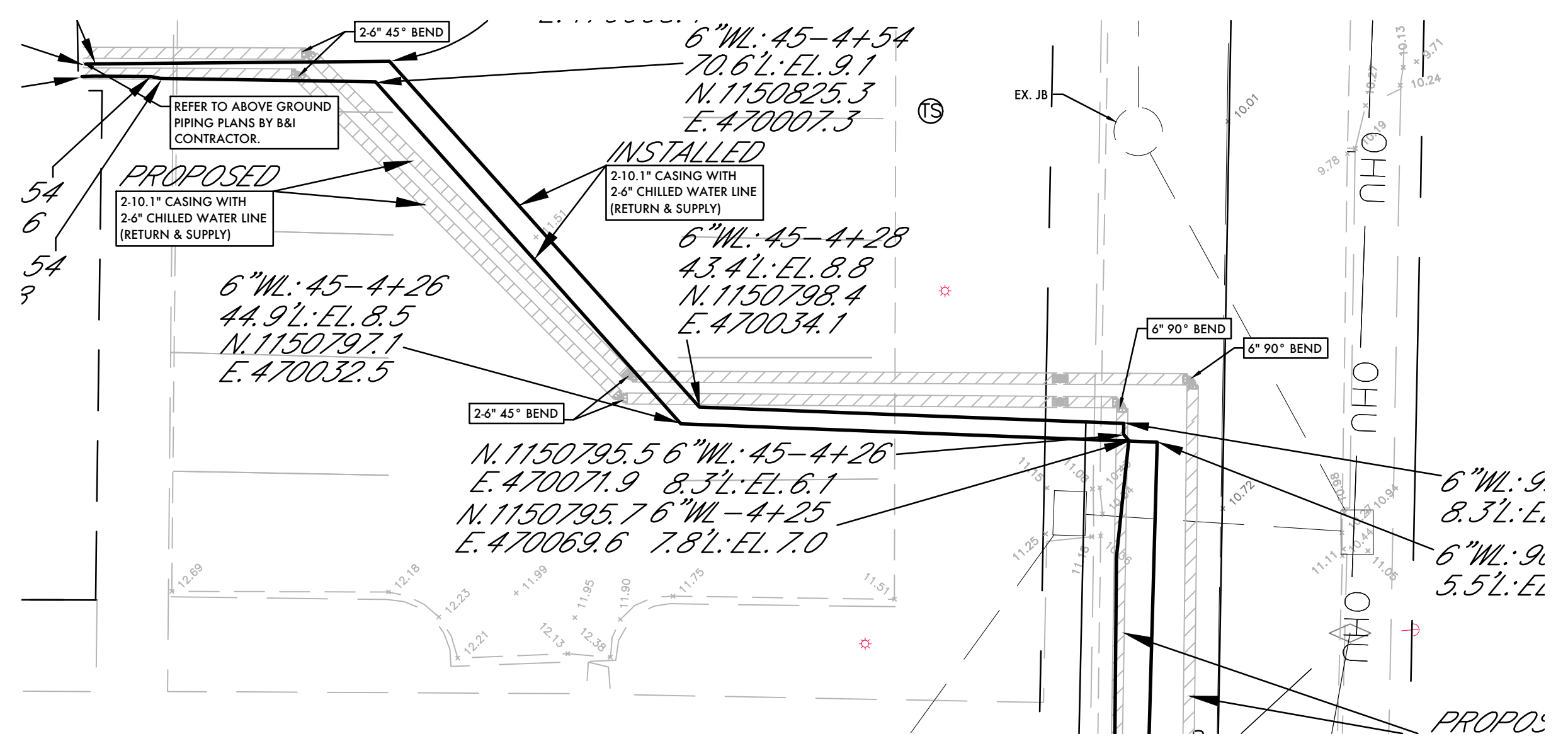
FUNCTION	BY	DATE
DESIGNED:	MLC	04/01/15
CHECKED:	MF	07/21/14
REVISIONS	BY	DATE

FUNCTION	BY	DATE
DESIGNED:	MLC	04/01/15
CHECKED:	MF	07/21/14
REVISIONS	BY	DATE

DAC PROJECT NUMBER  
4542-94-000-300-897

CIVIL PLAN  
SHEET NUMBER  
**C3**

- LEGEND
- PROPOSED CHILLER LINE
  - PROPOSED CONDUIT
  - PROPOSED OVER HEAD CHILLED WATER LINE
  - PROPOSED OVER HEAD CONDUIT
  - EXISTING SIDEWALK
  - EXISTING ASPHALT PAVEMENT
  - EX. WATER MAIN
  - EX. SANITARY LINE
  - STANDARD TRENCH
  - EROSION CONTROL DEVICE (SEE DETAIL SHEET)
  - ASPHALT TO BE MILLED AND RESURFACED
  - \*MILL 3/4" ASPHALT & RESURFACE WITH 3/4" TYPE S1 ASPHALT. RESTORE STAMPED ASPHALT CROSSWALKS IN ACCORDANCE WITH DETAIL STRIPING TO BE RESTORED IN ITS ORIGINAL LOCATION.
- FM - EX. FORCE MAIN
  - D - EX. DRAINAGE
  - G - EX. GAS MAIN
  - OE - EX. OVER HEAD ELECTRIC
  - EX. MANATEE COUNTY FIBER OPTIC CABLE
  - BVER - EX. VERIZON CABLE



ENLARGED VIEW-13TH STREET WEST (NORTH)  
SCALE 1"=10'

NOTES

1. ALL EXISTING UTILITIES SHOWN WERE LOCATED USING BEST AVAILABLE RESOURCES. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS.
2. CONTRACTOR TO COORDINATE PARKING LOT AND DRIVEWAY CLOSURES WITH MANATEE COUNTY AND/OR PROPERTY OWNER.
3. ALL LANE CLOSURE/MAINTENANCE OF TRAFFIC SHALL FOLLOW FOOT MAINTENANCE OF TRAFFIC STANDARDS.
4. ALL ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM.
5. CONTRACTOR TO STABILIZE ALL EXISTING STRUCTURES AND PIPES PER CITY OF BRADENTON PUBLIC WORK STANDARDS.
6. CONTRACTOR TO PERFORM SUBSURFACE UTILITY LOCATES ON ALL APPLICABLE CROSSING UTILITIES PRIOR TO THE START OF DIRECTIONAL DRILLING.
7. ANY AND ALL FIELD ADJUSTMENTS MUST BE REVIEWED AND APPROVED BY CITY OF BRADENTON INSPECTOR.
8. CHILLED WATER LINES WILL BE MAINTAINED BY MANATEE COUNTY.
9. CONTRACTOR TO INSTALL TRACING WIRE OVER ALL INSTALLED PIPES IN ACCORDANCE WITH CITY OF BRADENTON DETAILS AND STANDARDS.
10. WORKING HOURS ARE FROM 7:00 A.M. TO 6:00 P.M. ALL ROADS SHALL BE LEFT DRIVEABLE AT THE END OF EACH DAY. BASE COURSE SHALL BE PLACED UP TO GRADE.
11. MACHINERY AND EQUIPMENT SHALL BE STORED AT THE END OF EACH WORKING DAY.
12. ALL ROADWAY OPENINGS/PITS LEFT OPEN DURING FULL ROADWAY CLOSURES SHALL BE FENCED AND MARKED WITH FLASHING LIGHTS AT THE END OF EACH DAY.
13. CONTRACTOR IS RESPONSIBLE FOR PROVIDING GEOTECHNICAL TESTING RESULTS FOR ALL ROADWAY CONSTRUCTION AND PAVING. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS.
14. CONTRACTOR TO KEEP BORE LOG DURING DIRECTIONAL DRILLING OPERATIONS. PIPE DEPTH AND STATION/OFF-SET SHALL BE RECORDED EVERY 50' ON RECORD DRAWINGS IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS.
15. ALL UTILITIES AND CORRESPONDING STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS AND SPECIFICATIONS.

PREPARED BY  
**ZNS ENGINEERING**  
ENGINEERS | PLANNERS | SURVEYORS | LANDSCAPE ARCHITECTS  
201 5th AVENUE DRIVE EAST BRADENTON, FL 34208  
EMAIL: ZNS@ZNSENG.COM | TELEPHONE: 941.748.8080 | FAX: 941.748.3316

ENGINEER'S CERTIFICATE  
I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND BASED ON THE CERTIFICATION PROVIDED BY THE SURVEYOR OF RECORD, THE IMPROVEMENTS DEPICTED HEREON HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. THE UNDERSIGNED ENGINEER IS NOT CERTIFYING THE ACCURACY OF THE DRAWINGS PREPARED BY THE SURVEYOR.

ZNS ENGINEERING, L.C.  
BRADENTON, FLORIDA 34206  
P.O. BOX 8448  
DATE OF CERTIFICATION :04/03/2015

SURVEYOR'S CERTIFICATE  
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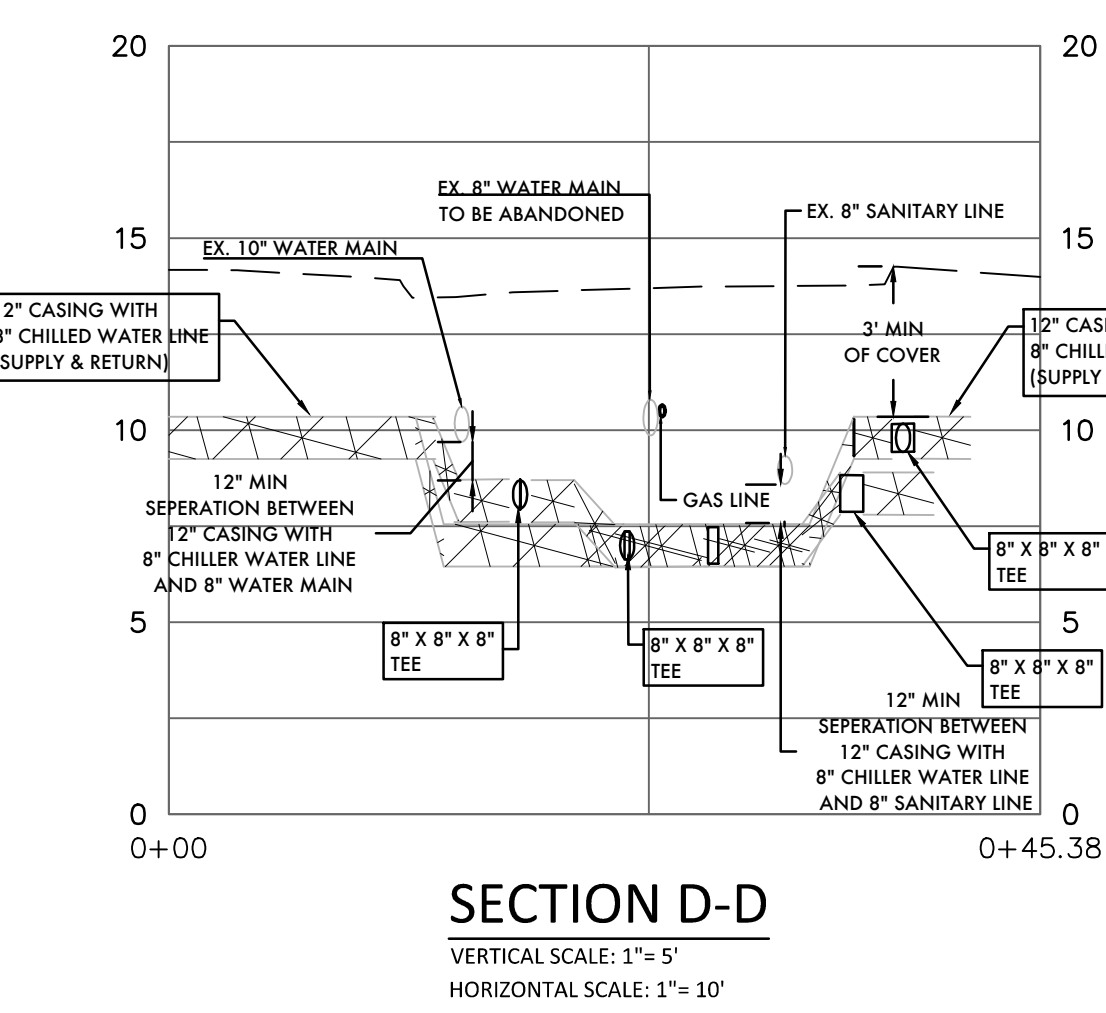
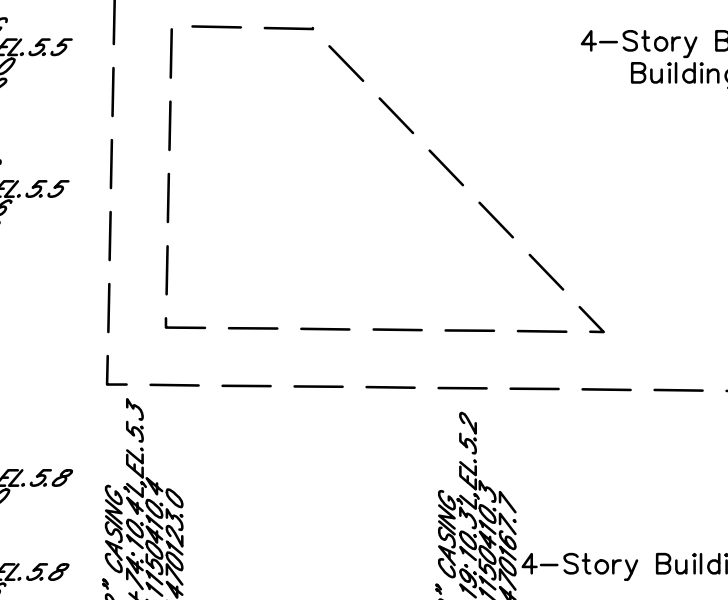
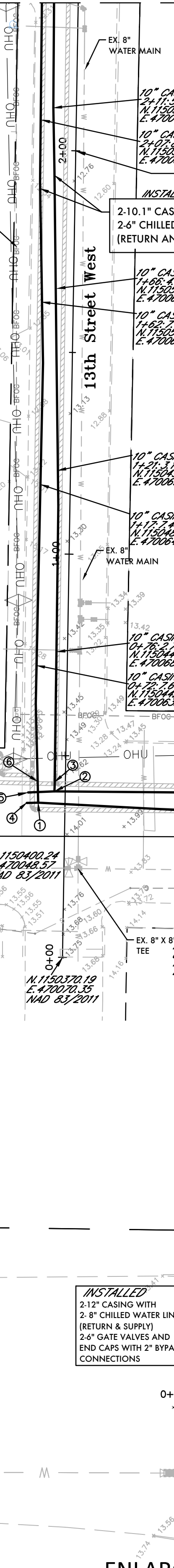
ZNS ENGINEERING, L.C.  
P.O. BOX 8448  
BRADENTON, FLORIDA 34206

NATHAN J. KRAGT P.E. #69272  
DATE OF FIELD WORK: 03/17/15  
DATE OF CERTIFICATION: 04/03/15

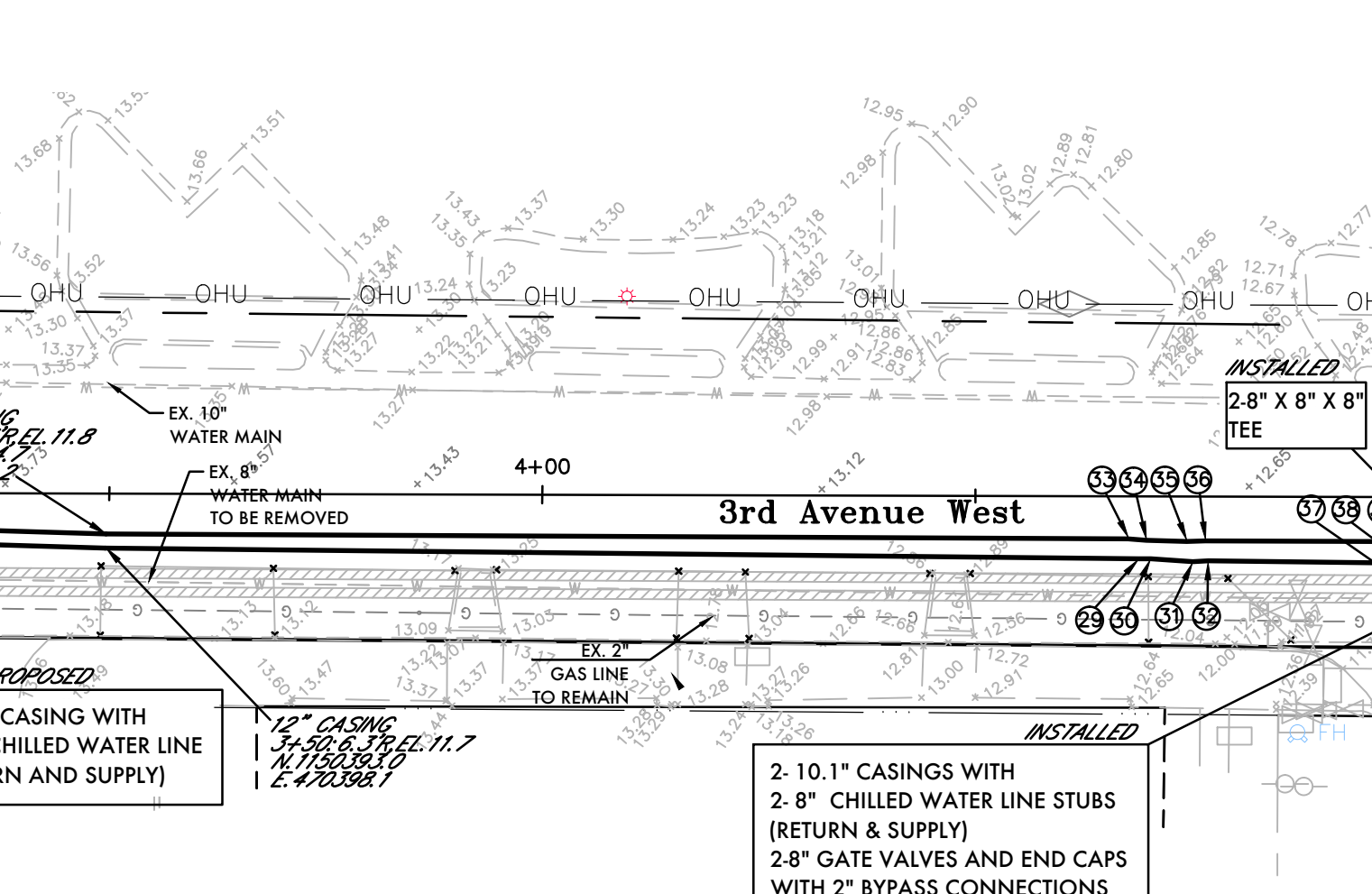
SEE SHEET C3

RECORD DRAWING DATA TABLE  
(T.O.P. = TOP OF PIPE ELEV., T.O.N. = TOP OF NUT ELEV.)

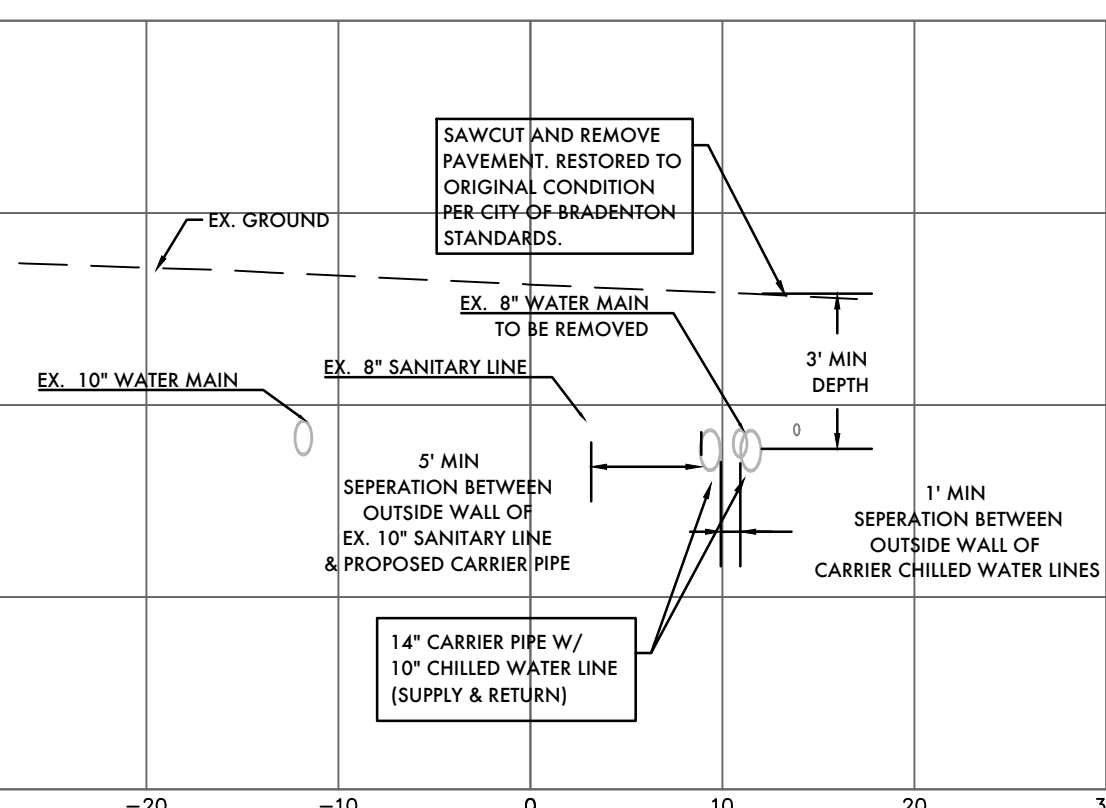
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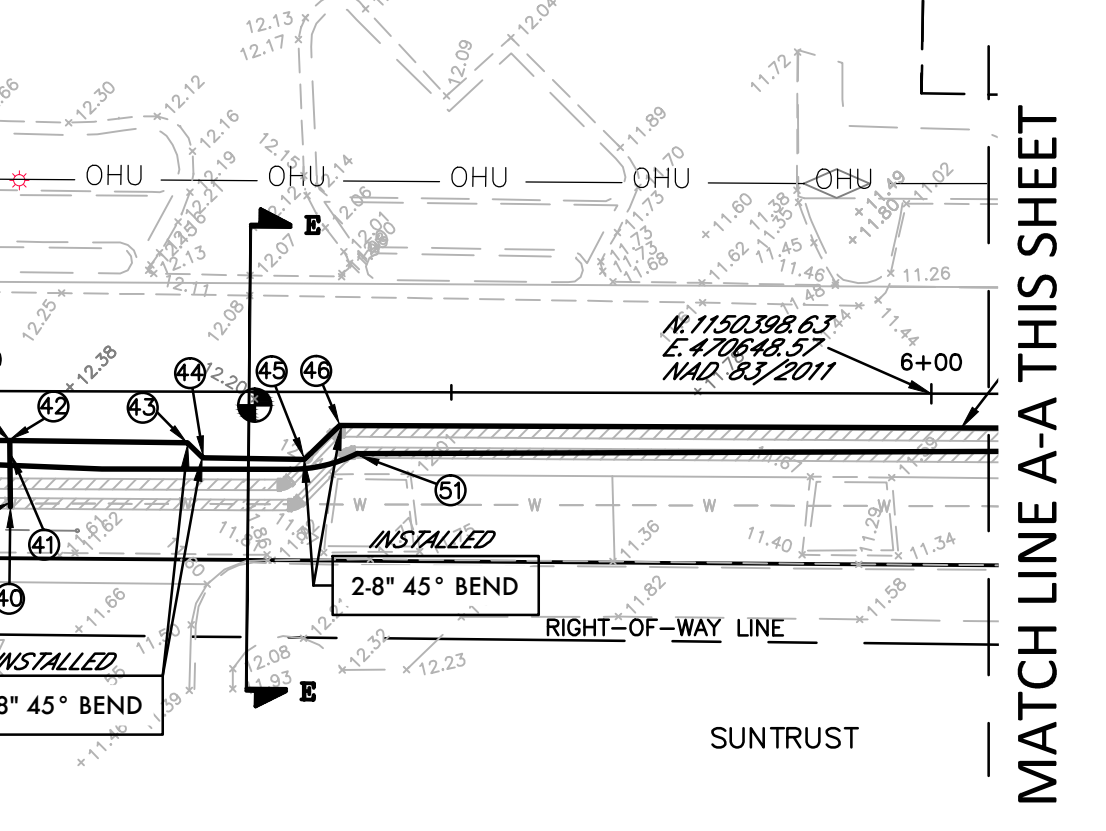
ENLARGED VIEW - 3RD AVENUE WEWST (EAST OF MAIN ST)  
SCALE: 1"=10'



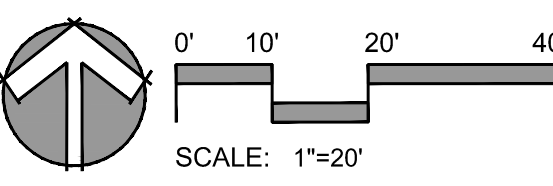
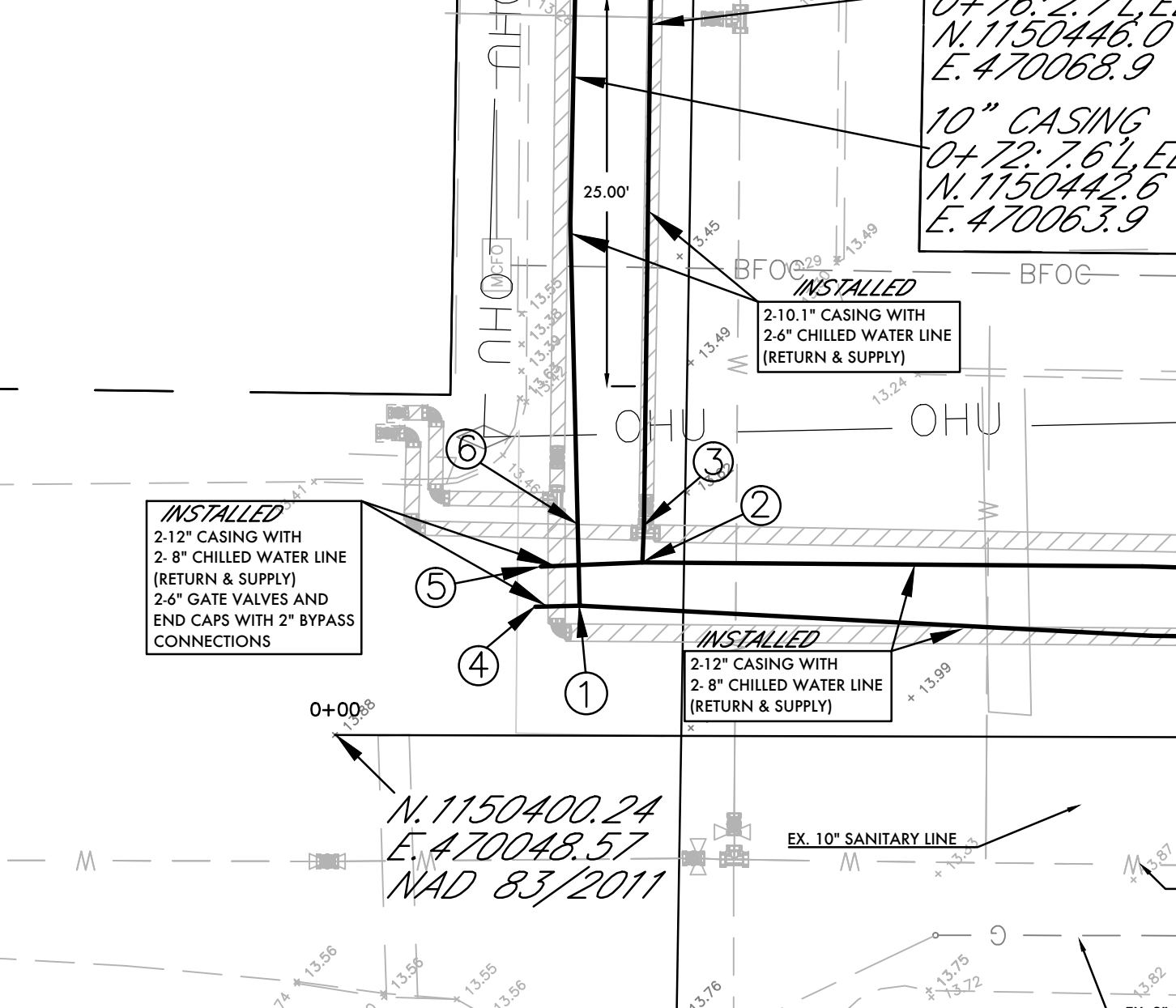
KEY MAP (NOT TO SCALE)



SECTION E-E  
VERTICAL SCALE: 1"=5'  
HORIZONTAL SCALE: 1"=10'



ENLARGED VIEW - 13TH ST. W. AND 3RD AVE. W.  
SCALE: 1"=10'



ACRONYM LEGEND:  
L - LEFT  
R - RIGHT  
EL. - ELEVATION  
WL - WATER LINE  
GV - GATE VALVE  
T.O.N. - TOP OF NUT  
45 - 45° BEND  
90 - 90° BEND  
RED. - REDUCER

LEGEND

- PROPOSED CHILLER LINE
- PROPOSED CONDUIT
- PROPOSED OVER HEAD CHILLED WATER LINE
- PROPOSED OVER HEAD CONDUIT
- EXISTING SIDEWALK
- EXISTING ASPHALT PAVEMENT
- EX. WATER MAIN
- EX. SANITARY LINE
- EX. FORCE MAIN
- EX. DRAINAGE
- EX. GAS MAIN
- EX. OVER HEAD ELECTRIC
- EX. MANATEE COUNTY FIBER OPTIC CABLE
- EX. VERIZON CABLE
- EROSION CONTROL DEVICE (SEE DETAIL SHEET)
- ASPHALT TO BE MILLED AND RESURFACED
- \*MILL 3/4" ASPHALT & RESURFACE WITH 3/4" TYPE S-1 ASPHALT. RESTORE STAMPED ASPHALT CROSSWALK IN ACCORDANCE WITH DETAIL. STRINGING TO BE RESTORED IN ITS ORIGINAL LOCATION.
- DIRECTIONAL DRILL PIT
- \*SAWCUT AND REMOVE SURFACE. RESTORE TO ORIGINAL CONDITION UPON COMPLETION. REPLACE ASPHALT IN 2 LIFTS TO ALLOW CONTINUOUS 3/4" ASPHALT RESURFACING.

- RECORD DRAWING NOTES:
1. ALL RECORD DRAWING INFORMATION SHOWN IN ITALICS.
  2. ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM. MANATEE COUNTY BENCHMARK PID # DL1768 LOCATED AT N.1150998.08 E.469907.05 NAD 1983/2011 AND 27 29 56.7 (N) LAT. 082 34 28.5 (W) LONG. SEE SHEET C3 FOR PLAN VIEW LOCATION AND DETAILS. ELEVATION = 5.00.
  3. GRAPHICAL SYMBOLS OF UTILITIES ARE EXAGGERATED FOR CLARITY.
  4. ALL VALVES NOTED ON CONSTRUCTION PLANS ARE AMERICAN FLOW CONTROL SERIES 2500.
  5. ALL WATER MAINS WERE INSTALLED WITH (HDPE) SDR 11 MATERIAL.
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FPL Services, LLC  
Development & Construction  
6001 VILLAGE BLVD.  
PALM BEACH, FLORIDA 33407  
TEL: 305.552.4852  
FAX: 305.552.2272  
www.fpl.com

DATE OF FIELD WORK: 03/17/15  
DATE OF CERTIFICATION: 03/17/15  
MANATEE COUNTY, FLORIDA 34206  
DATE OF CERTIFICATION: 03/17/15  
DATE OF CERTIFICATION: 03/17/15

RECORD DRAWING OF CHILLED WATER LINES  
MANATEE COUNTY GOVERNMENT  
DISTRICT COOLING PLANT  
323 9TH STREET WEST  
BRADENTON, FLORIDA 34205

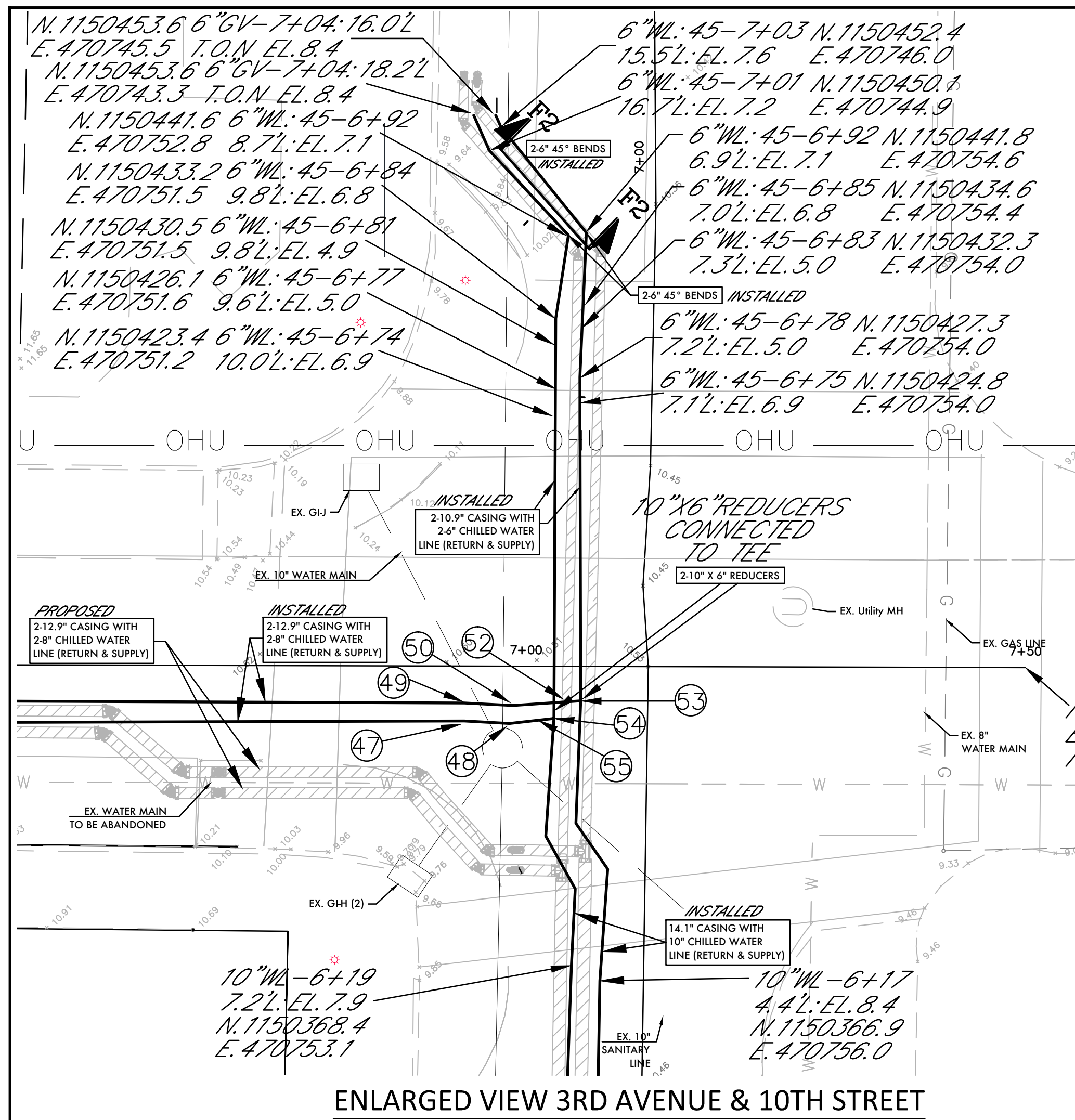
FUNCTION	BY	DATE
DESIGNED:	MLC	04/01/15
CHECKED:	MF	04/01/15
REVISIONS	BY	DATE

DAC PROJECT NUMBER  
4542-94-000-300-897

CIVIL PLAN

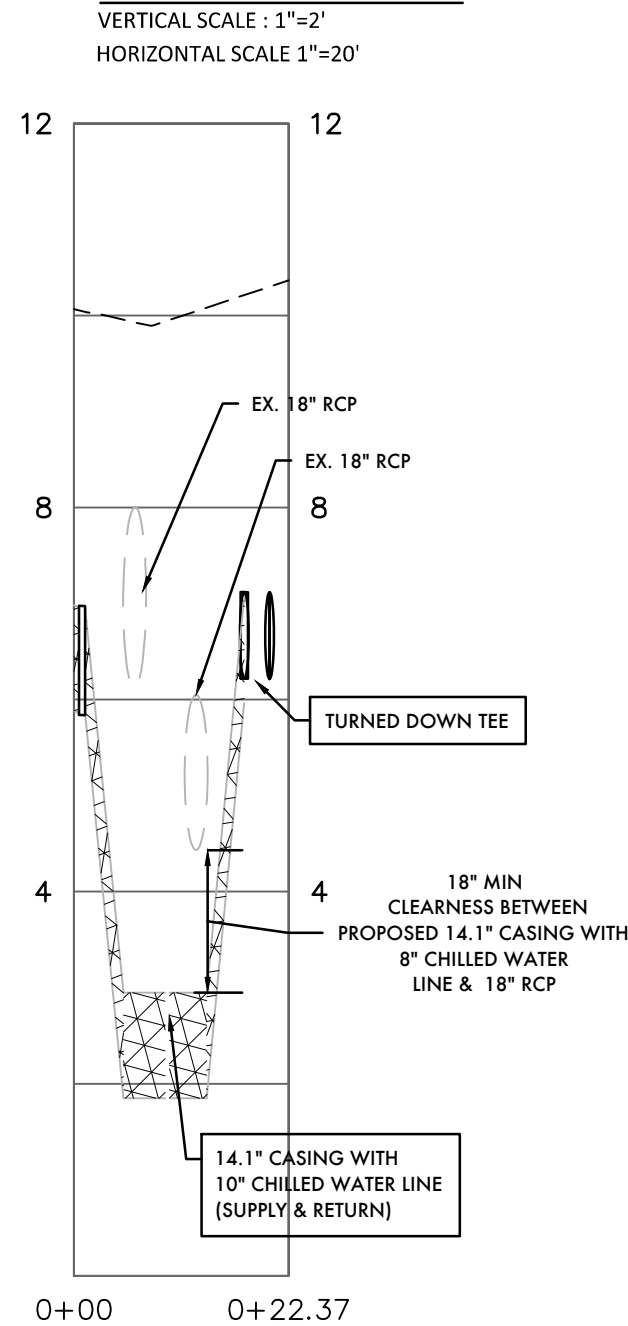
SHEET NUMBER  
**C4**

PREPARED BY  
**ZNS ENGINEERING**  
ENGINEERS | PLANNERS | SURVEYORS | LANDSCAPE ARCHITECTS  
201 5th AVENUE DRIVE EAST BRADENTON, FL 34208  
E-MAIL: ZNS@ZNSENGINEERING.COM | TELEPHONE: 941.748.9000 | FAX: 941.748.3316

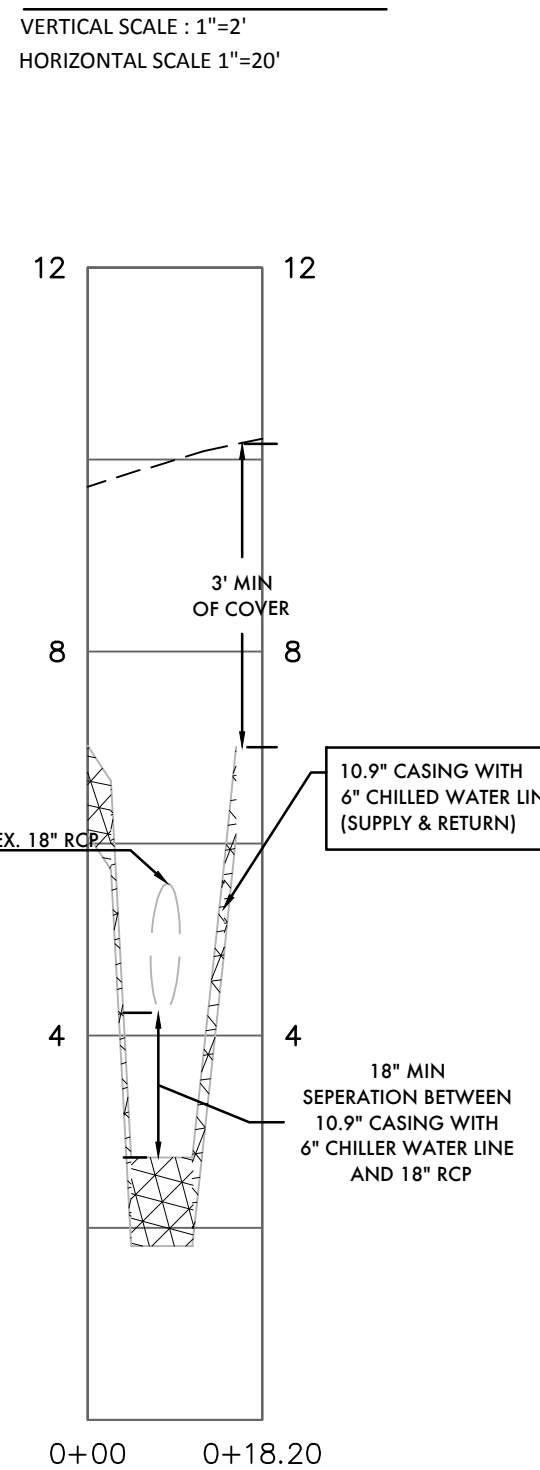


ENLARGED VIEW 3RD AVENUE & 10TH STREET  
SCALE 1"=10'

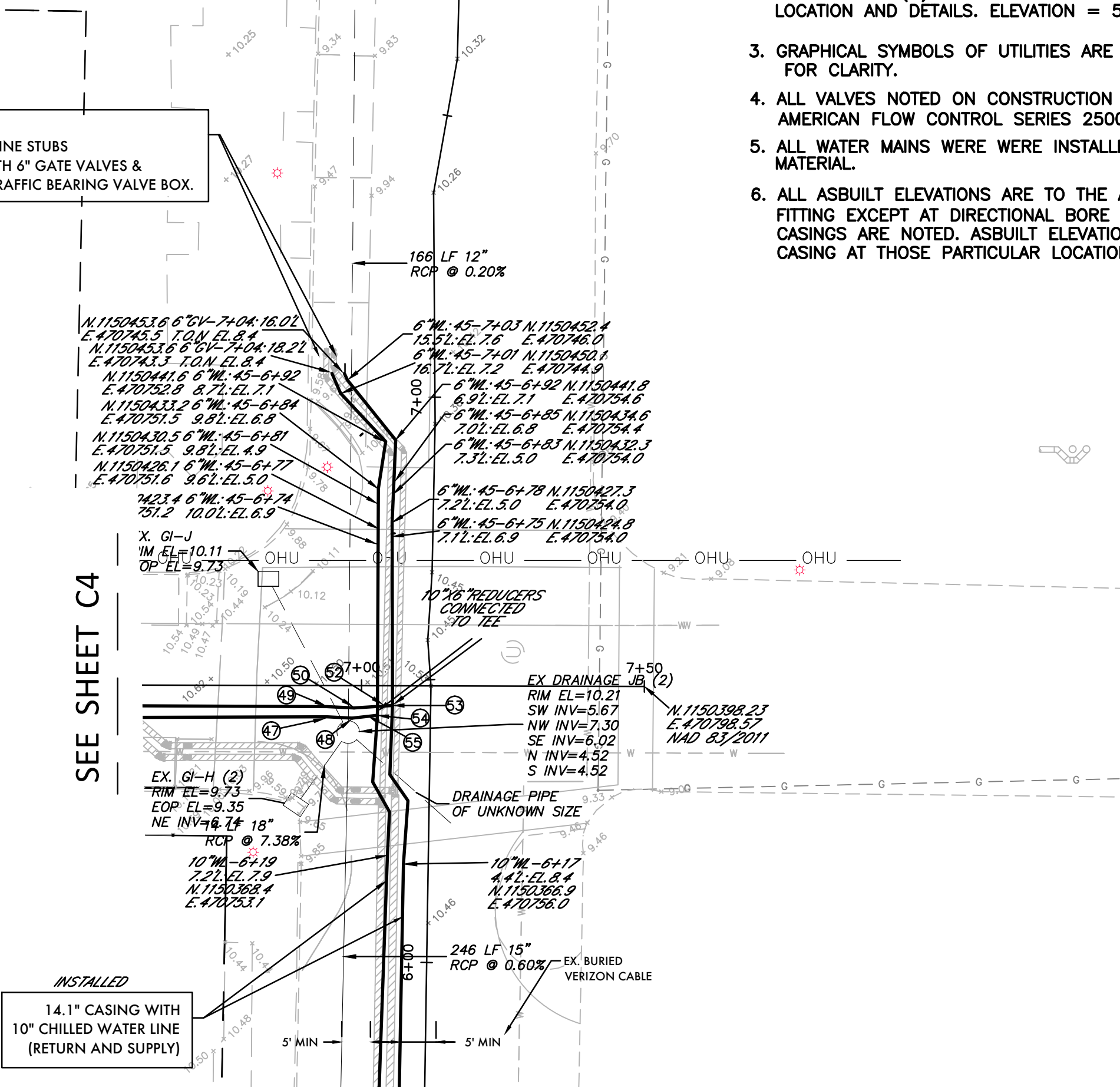
SECTION F1-F1



SECTION F2-F2



2.10.9" CASING WITH  
2.6" CHILLED WATER LINE STUBS  
(RETURN & SUPPLY) WITH 6" GATE VALVES &  
CAPS. PLACE WITHIN TRAFFIC BEARING VALVE BOX.



TYPICAL SECTION FOR  
TRENCHING & PIPE  
LAYOUT : STA 3+70  
TO STA 7+05

ACRONYM LEGEND:

L	- LEFT
R	- RIGHT
EL	- ELEVATION
WL	- WATER LINE
GV	- GATE VALVE
T.O.N.	- TOP OF NUT
45	- 45° BEND
90	- 90° BEND
RED.	- REDUCER
FM	- EX. FORCE MAIN
D	- EX. DRAINAGE
G	- EX. GAS MAIN
OE	- EX. OVER HEAD ELECTRIC
BFCC	- EX. MANATEE COUNTY FIBER OPTIC CABLE
BVER	- EX. VERIZON CABLE
EC	- EROSION CONTROL DEVICE (SEE DETAIL SHEET)
EX. SANITARY LINE	
STANDARD TRENCH	
*SAWCUT AND REMOVE SURFACE. RESTORE TO ORIGINAL CONDITION UPON COMPLETION.	
DIRECTIONAL DRILL PIT	
*SAWCUT AND REMOVE SURFACE. RESTORE TO ORIGINAL CONDITION UPON COMPLETION. REPLACE ASPHALT IN 2 LIFTS TO ALLOW CONTINUOUS 3/4" ASPHALT RESURFACING.	

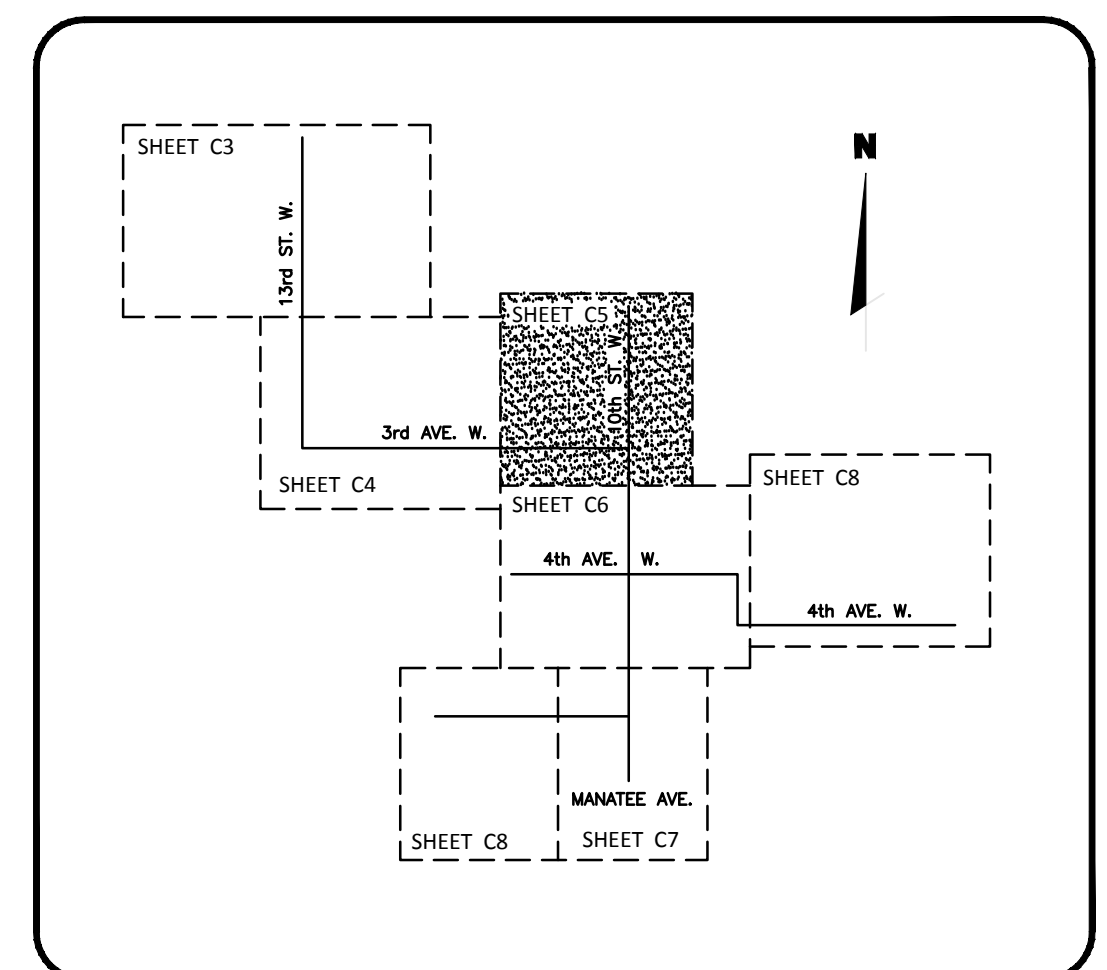
RECORD DRAWING NOTES:

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5. ALL WATER MAINS WERE INSTALLED WITH (HDPE) SDR 11 MATERIAL.
6. ALL ASBUILT ELEVATIONS ARE TO THE ACTUAL TOP OF PIPE OR FITTING EXCEPT AT DIRECTIONAL BORE LOCATIONS WHERE CASINGS ARE NOTED. ASBUILT ELEVATIONS ARE TO THE TOP OF CASING AT THOSE PARTICULAR LOCATIONS.

NOTES

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2. CONTRACTOR TO COORDINATE PARKING LOT AND DRIVEWAY CLOSURES WITH MANATEE COUNTY AND/OR PROPERTY OWNER.
3. ALL LANE CLOSURE/MAINTENANCE OF TRAFFIC SHALL FOLLOW FOOT MAINTENANCE OF TRAFFIC STANDARDS.
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7. ANY AND ALL FIELD ADJUSTMENTS MUST BE REVIEWED AND APPROVED BY CITY OF BRADENTON INSPECTOR.
8. CHILLED WATER LINES WILL BE MAINTAINED BY MANATEE COUNTY.
9. CONTRACTOR TO INSTALL TRACING WIRE OVER ALL INSTALLED PIPES IN ACCORDANCE WITH CITY OF BRADENTON DETAILS AND STANDARDS.
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12. ALL ROADWAY OPENINGS/PITS LEFT OPEN DURING FULL ROADWAY CLOSURES SHALL BE FENCED AND MARKED WITH FLASHING LIGHTS AT THE END OF EACH DAY.
13. CONTRACTOR IS RESPONSIBLE FOR PROVIDING GEOTECHNICAL TESTING RESULTS FOR ALL ROADWAY COMPACTION AND PAVING. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS.
14. CONTRACTOR TO KEEP BORE LOG DURING DIRECTIONAL DRILLING OPERATIONS. PIPE DEPTH AND STATION/OFF-SET SHALL BE RECORDED EVERY 50' ON RECORD DRAWINGS IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS.
15. ALL UTILITIES AND CORRESPONDING STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS AND SPECIFICATIONS.

PREPARED BY  
**ZNS ENGINEERING**  
ENGINEERS | PLANNERS | SURVEYORS | LANDSCAPE ARCHITECTS  
CA 002767 18 000692 IC 000363  
301 5th AVENUE DRIVE EAST BRADENTON, FL 34208  
E-MAIL: ZNS@ZNSENGINE.COM | TELEPHONE: 941.748.8080 | FAX: 941.748.3316



KEY MAP  
(NOT TO SCALE)

**FPL Services, LLC**  
Development & Construction  
8001 VILLAGE BLVD.  
SUITE 100  
TALLAHASSEE, FLORIDA 32307  
TEL: 905.552.4853  
FAX: 305.899.2272  
www.fpl.com

**ZNS ENGINEERING, L.C.**  
BRADENTON, FLORIDA 34208  
DATE OF FIELD WORK: 05/17/15  
DATE OF CERTIFICATION: 04/02/2015  
MANATEE COUNTY GOVERNMENT  
DISTRICT COOLING PLANT  
323 9TH STREET WEST  
BRADENTON, FLORIDA 34205

**RECORD DRAWING OF CHILLED WATER LINES**  
MANATEE COUNTY GOVERNMENT  
DISTRICT COOLING PLANT  
323 9TH STREET WEST  
BRADENTON, FLORIDA 34205

FUNCTION	BY	DATE
DESIGNED:	MLC	04/01/15
CHECKED:	MF	07/21/14
REVISIONS	BY	DATE

DAC PROJECT NUMBER  
4542-94-000-300-897

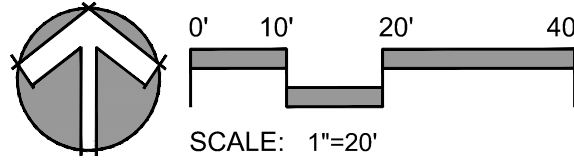
CIVIL PLAN  
SHEET NUMBER  
**C5**

ACRONYM LEGEND:

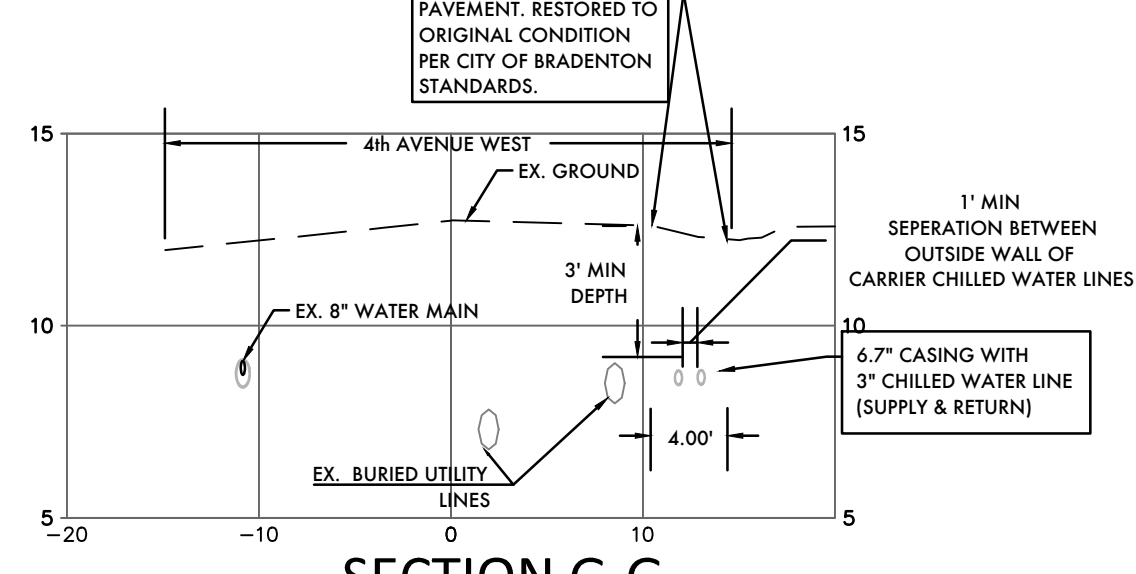
- L - LEFT
- R - RIGHT
- EL - ELEVATION
- WL - WATER LINE
- GV - GATE VALVE
- T.O.N. - TOP OF NUT
- 45 - 45° BEND
- 90 - 90° BEND
- RED. - REDUCER

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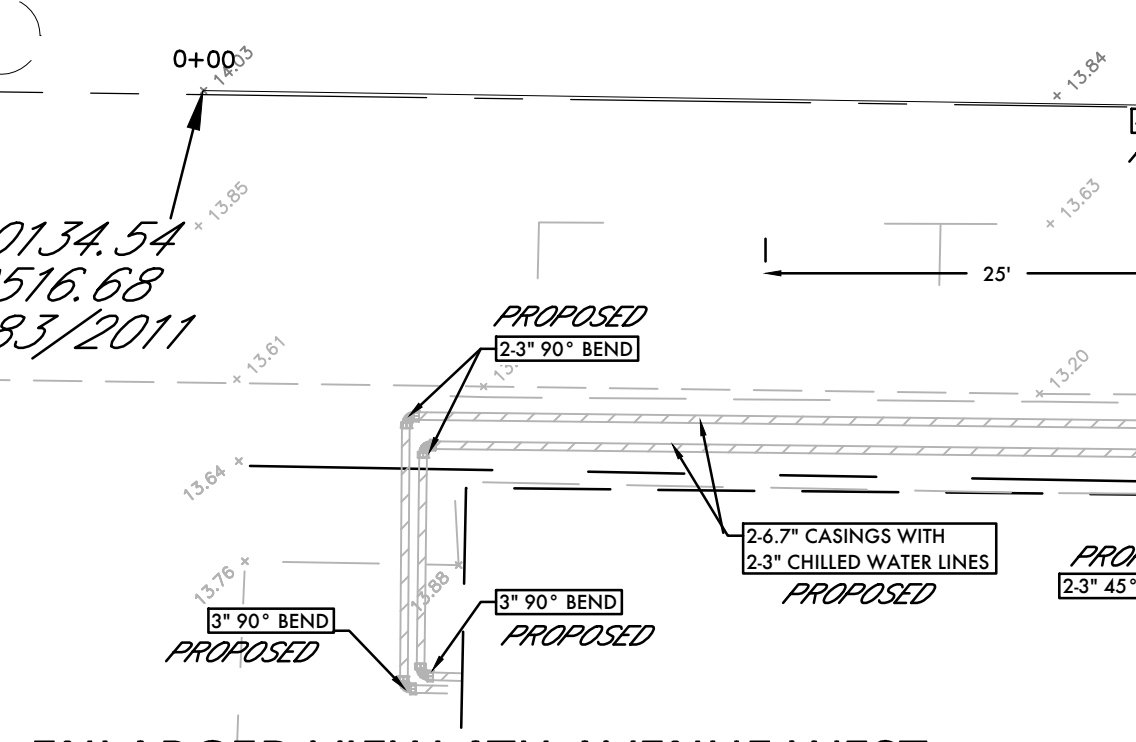


SEE SHEET C5



**SECTION G-G**

VERTICAL SCALE: 1"=5"  
HORIZONTAL SCALE: 1"=10"

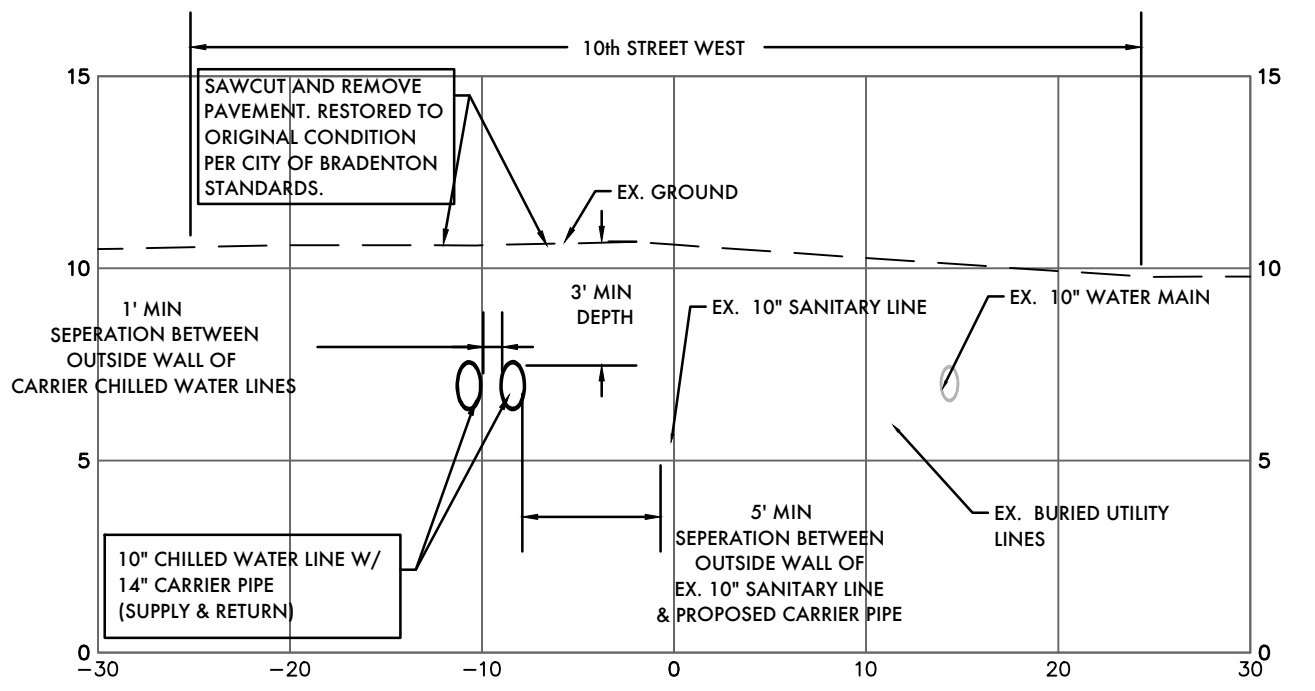


**ENLARGED VIEW 4TH AVENUE WEST**

SCALE 1"=10'

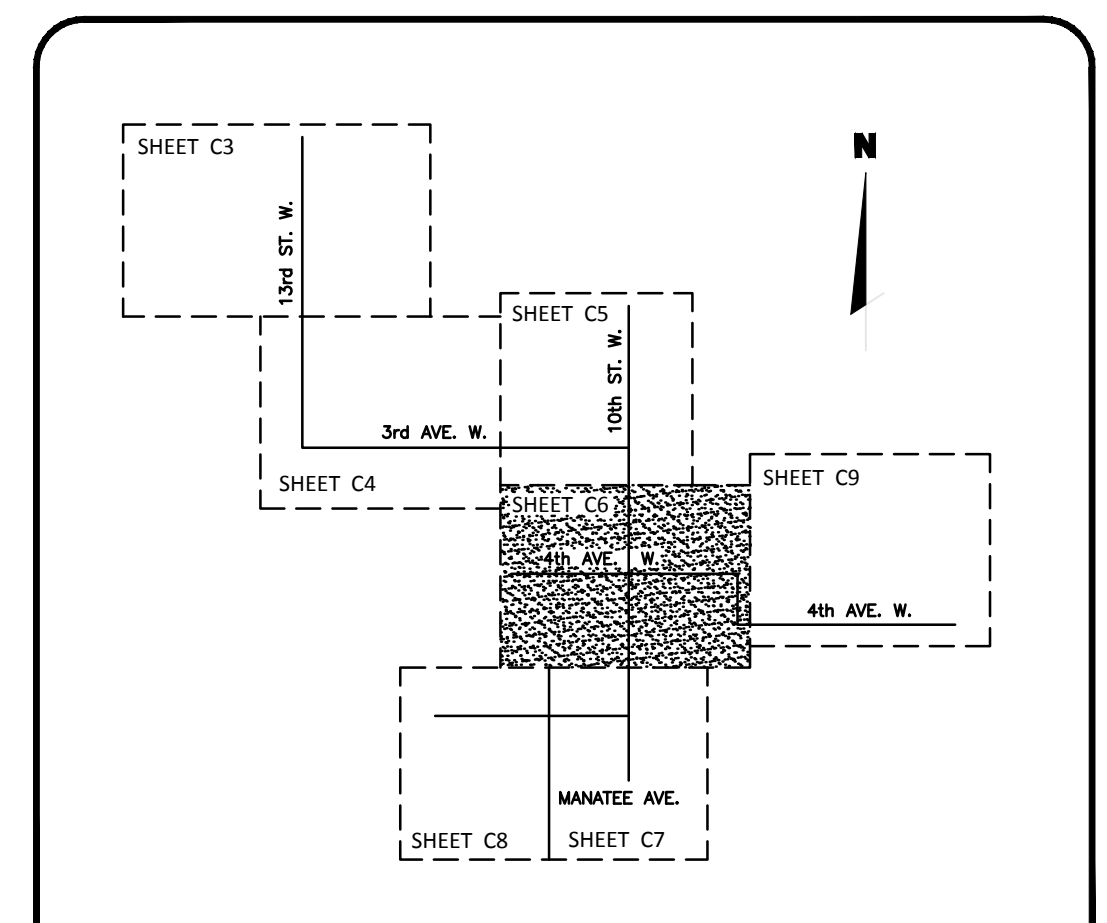
RECORD DRAWING DATA TABLE  
(T.O.P. = TOP OF PIPE ELEV., T.O.N. = TOP OF NUT ELEV.)

ITEM	STATION	DEPTH	ELEVATION	WORKING	CASING
10" W.M.	4+00	18" T	2.6 T.O.N.	1150104.2	4" 4048.9
10" W.M.	4+07	18" T	2.1 T.O.N.	1150104.2	4" 4048.9
10" W.M.	4+14	18" T	1.6 T.O.N.	1150104.2	4" 4048.9
10" W.M.	4+21	18" T	1.1 T.O.N.	1150104.2	4" 4048.9
10" W.M.	4+28	18" T	0.6 T.O.N.	1150104.2	4" 4048.9
10" W.M.	4+35	18" T	0.1 T.O.N.	1150104.2	4" 4048.9
10" W.M.	4+42	18" T	-0.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	4+49	18" T	-0.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	4+56	18" T	-1.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	4+63	18" T	-1.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	4+70	18" T	-2.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	4+77	18" T	-2.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	4+84	18" T	-3.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	4+91	18" T	-3.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	4+98	18" T	-4.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	5+05	18" T	-4.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	5+12	18" T	-5.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	5+19	18" T	-5.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	5+26	18" T	-6.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	5+33	18" T	-6.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	5+40	18" T	-7.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	5+47	18" T	-7.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	5+54	18" T	-8.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	5+61	18" T	-8.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	5+68	18" T	-9.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	5+75	18" T	-9.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	5+82	18" T	-10.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	5+89	18" T	-10.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	5+96	18" T	-11.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	6+03	18" T	-11.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	6+10	18" T	-12.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	6+17	18" T	-12.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	6+24	18" T	-13.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	6+31	18" T	-13.9 T.O.N.	1150104.2	4" 4048.9
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10" W.M.	6+52	18" T	-15.4 T.O.N.	1150104.2	4" 4048.9
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10" W.M.	7+06	18" T	-16.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	7+13	18" T	-16.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	7+20	18" T	-17.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	7+27	18" T	-17.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	7+34	18" T	-18.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	7+41	18" T	-18.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	7+48	18" T	-19.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	7+55	18" T	-19.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	7+62	18" T	-20.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	7+69	18" T	-20.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	7+76	18" T	-21.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	7+83	18" T	-21.9 T.O.N.	1150104.2	4" 4048.9
10" W.M.	7+90	18" T	-22.4 T.O.N.	1150104.2	4" 4048.9
10" W.M.	7+97	18" T	-22.9 T.O.N.	1150104.2	4" 4048.9



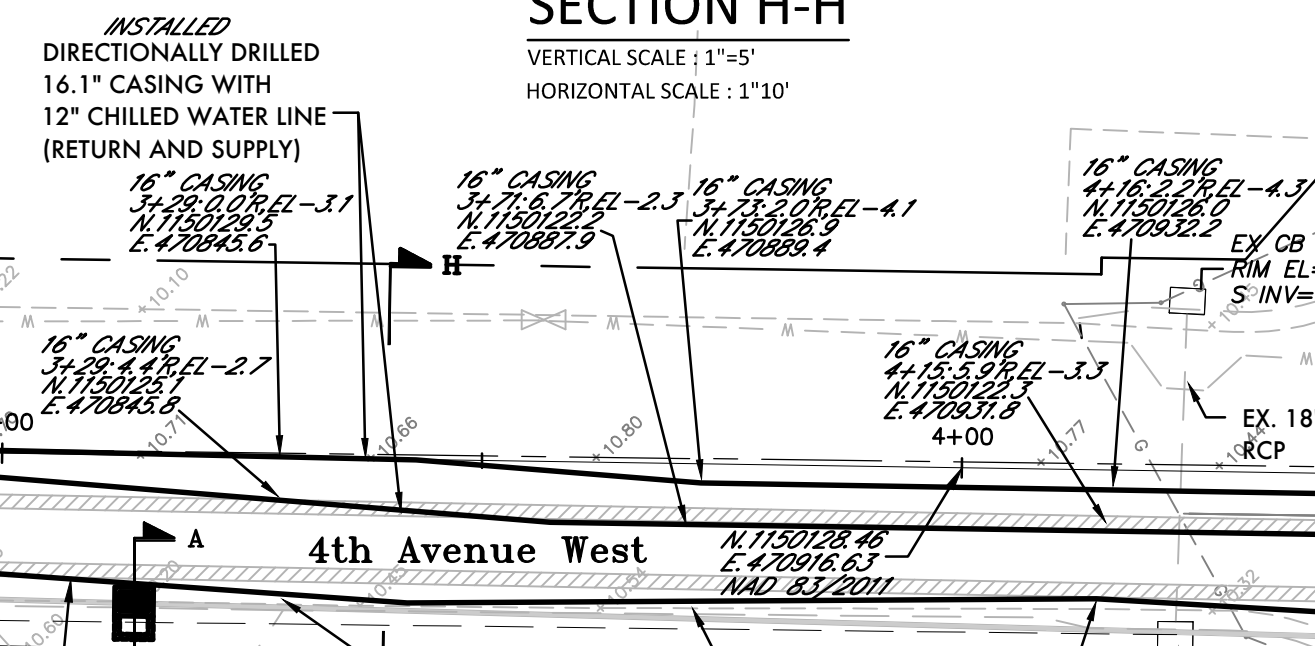
**SECTION F-F**

VERTICAL SCALE: 1"=5"  
HORIZONTAL SCALE: 1"=10"



NOTES

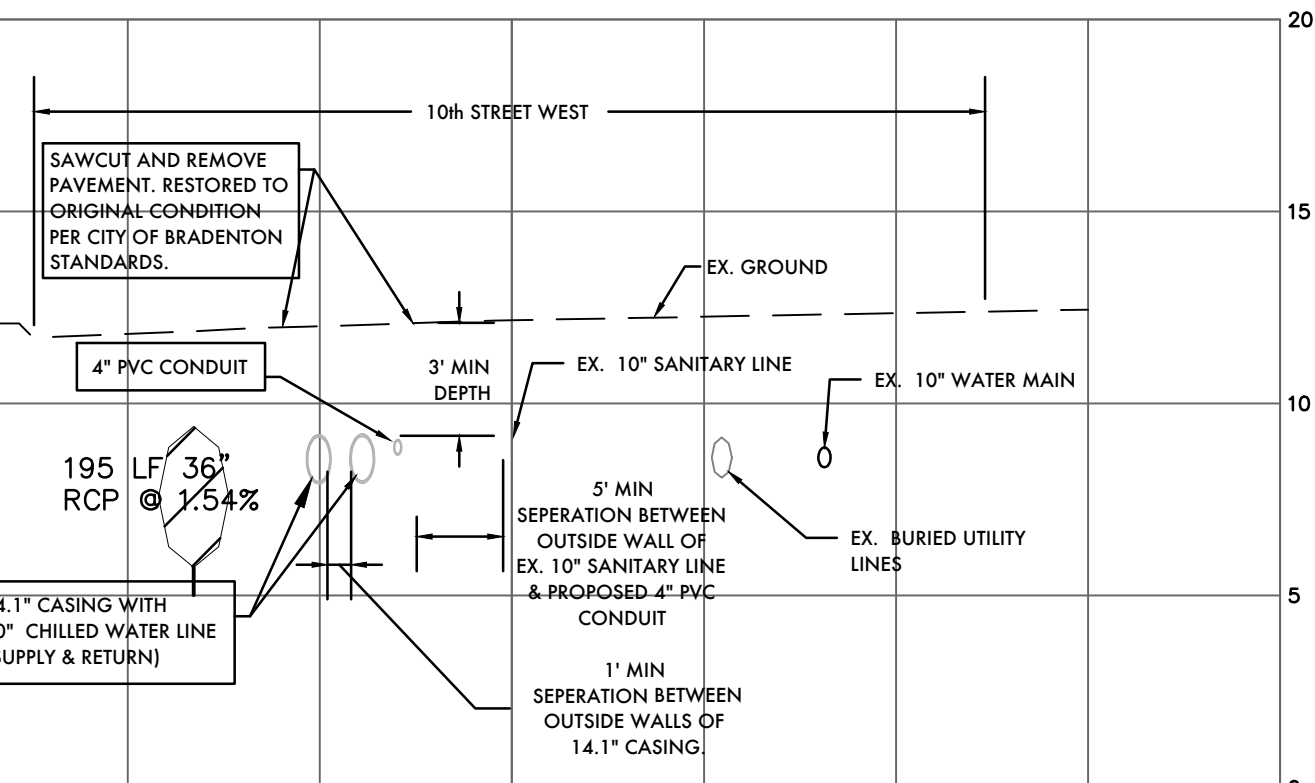
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**SECTION H-H**

VERTICAL SCALE: 1"=5"  
HORIZONTAL SCALE: 1"=10"

- LEGEND
- PROPOSED CHILLER LINE
  - PROPOSED CONDUIT
  - PROPOSED OVER HEAD CHILLED WATER LINE
  - PROPOSED OVER HEAD CONDUIT
  - EXISTING SIDEWALK
  - EXISTING ASPHALT PAVEMENT
  - EX. WATER MAIN
  - EX. SANITARY LINE
  - STANDARD TRENCH
  - DIRECTIONAL DRILL PIT



**SECTION I-I**

VERTICAL SCALE: 1"=5"  
HORIZONTAL SCALE: 1"=10"

**FPL Services, LLC**

Development & Construction  
8001 VILLAGE BLVD., SUITE 100  
CORTEZ, FLORIDA 32007  
TEL: 305.552.4850  
FAX: 305.899.2272  
WWW.FPL.COM

**ZNS ENGINEERING**

255 ENGINEERING, LLC  
P.O. BOX 9448  
BRADENTON, FLORIDA 34208

**RECORD DRAWING OF CHILLED WATER LINES**

MANATEE COUNTY GOVERNMENT  
DISTRICT COOLING PLANT  
323 9TH STREET WEST  
BRADENTON, FLORIDA 34205

FUNCTION	BY	DATE
DESIGNED:	MLC	04/01/15
CHECKED:	MF	04/01/15
REVISIONS	BY	DATE

DAC PROJECT NUMBER  
4542-94-000-300-897

CIVIL PLAN

SHEET NUMBER  
**C6**

PREPARED BY

**ZNS ENGINEERING**

ENGINEERS | PLANNERS | SURVEYORS | LANDSCAPE ARCHITECTS

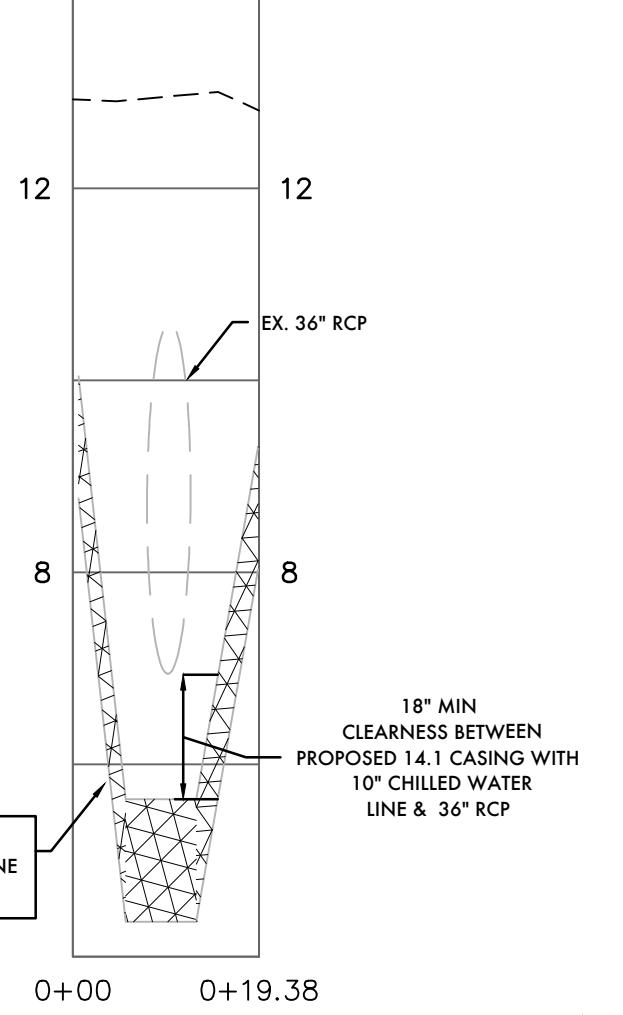
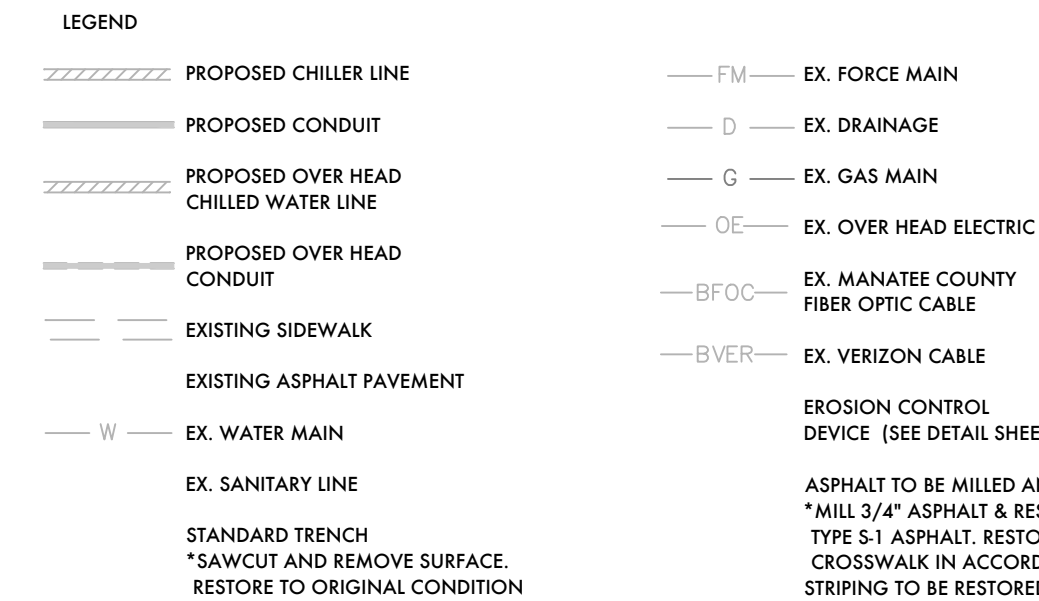
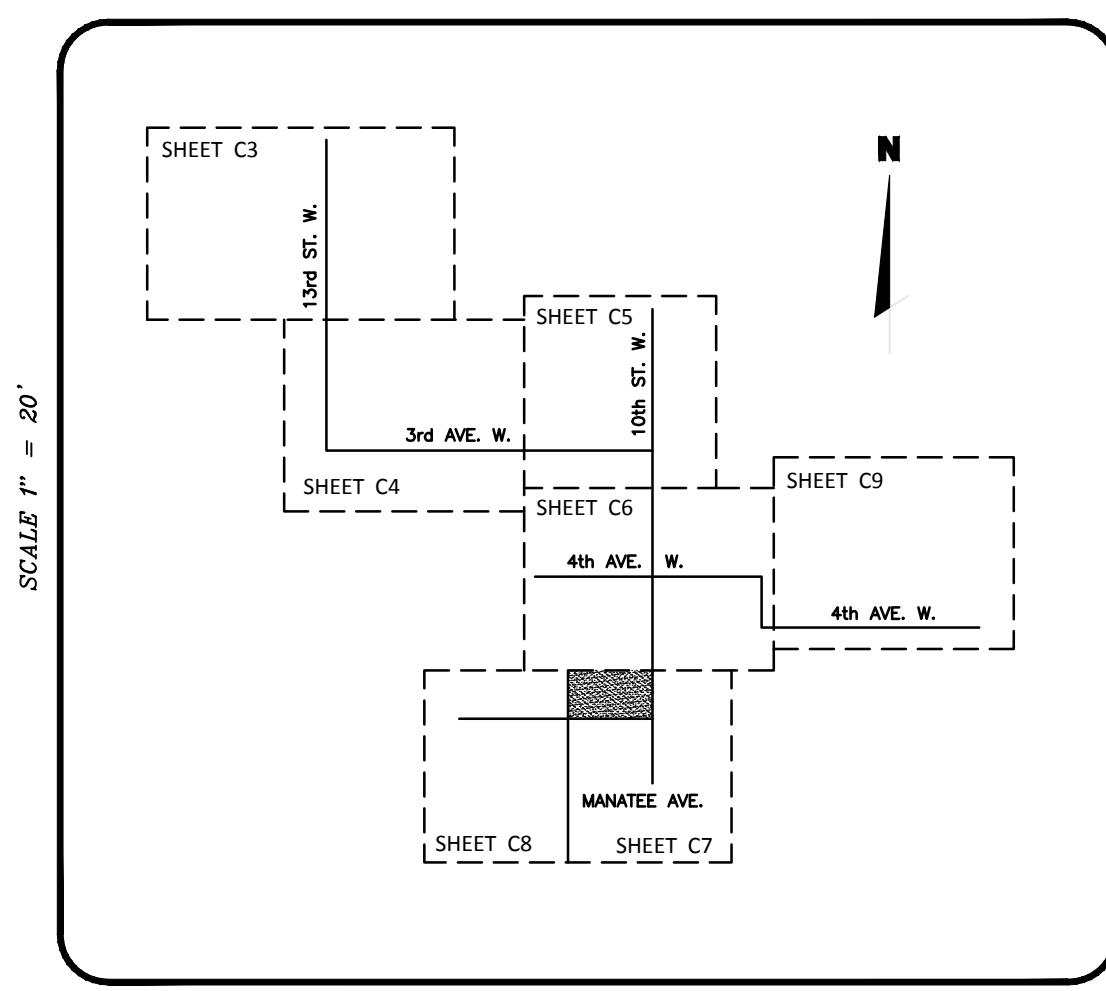
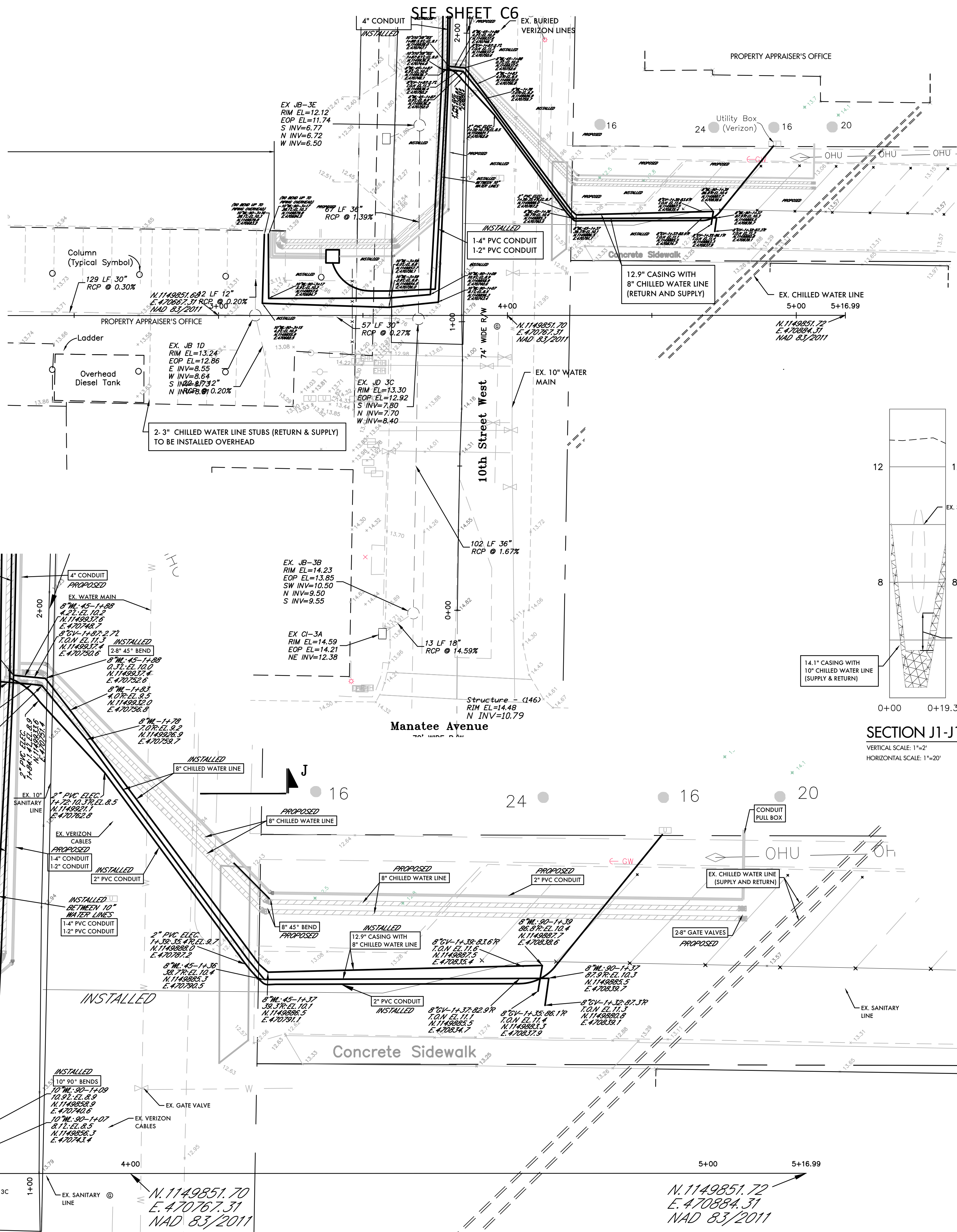
301 5th Avenue Drive East Bradenton, FL 34208  
E-mail: zns@znseng.com | Telephone: 941.748.8080 | Fax: 941.748.3316

ACRONYM LEGEND:  
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 GV - GATE VALVE  
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- ALL WATER MAINS WERE INSTALLED WITH (HDPE) SDR 11 MATERIAL.
- ALL ASBUILT ELEVATIONS ARE TO THE ACTUAL TOP OF PIPE OR FITTING EXCEPT AT DIRECTIONAL BORE LOCATIONS WHERE CASINGS ARE NOTED. ASBUILT ELEVATIONS ARE TO THE TOP OF CASING AT THOSE PARTICULAR LOCATIONS.

SEE SHEET C8



- NOTES**
- ALL EXISTING UTILITIES SHOWN WERE LOCATED USING BEST AVAILABLE RESOURCES. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS.
  - CONTRACTOR TO COORDINATE PARKING LOT AND DRIVEWAY CLOSURES WITH MANATEE COUNTY AND/OR PROPERTY OWNER.
  - ALL LANE CLOSURE/MAINTENANCE OF TRAFFIC SHALL FOLLOW FOOT MAINTENANCE OF TRAFFIC STANDARDS.
  - ALL ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM.
  - CONTRACTOR TO STABILIZE ALL EXISTING STRUCTURES AND PIPES PER CITY OF BRADENTON PUBLIC WORK STANDARD.
  - CONTRACTOR TO PERFORM SUBSURFACE UTILITY LOCATES ON ALL APPLICABLE CROSSING UTILITIES PRIOR TO THE START OF DIRECTIONAL DRILLING.
  - ANY AND ALL FIELD ADJUSTMENTS MUST BE REVIEWED AND APPROVED BY CITY OF BRADENTON INSPECTOR.
  - CHILLED WATER LINES WILL BE MAINTAINED BY MANATEE COUNTY.
  - CONTRACTOR TO INSTALL TRACING WIRE OVER ALL INSTALLED PIPES IN ACCORDANCE WITH CITY OF BRADENTON DETAILS AND STANDARDS.
  - WORKING HOURS ARE FROM 7:00 A.M. TO 6:00 P.M. ALL ROADS SHALL BE LEFT DRIVEABLE AT THE END OF EACH DAY. BASE COURSE SHALL BE PLACED UP TO GRADE.
  - MACHINERY AND EQUIPMENT SHALL BE STORED AT THE END OF EACH WORKING DAY.
  - ALL ROADWAY OPENINGS/PITS LEFT OPEN DURING FULL ROADWAY CLOSURES SHALL BE FENCED AND MARKED WITH FLASHING LIGHTS AT THE END OF EACH DAY.
  - CONTRACTOR IS RESPONSIBLE FOR PROVIDING GEOTECHNICAL TESTING RESULTS FOR ALL ROADWAY COMPACT AND PAVING. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS.
  - CONTRACTOR TO KEEP BORE LOG DURING DIRECTIONAL DRILLING OPERATIONS. PIPE DEPTH AND STATION/OFF-SET SHALL BE RECORDED EVERY 50' ON RECORD DRAWINGS IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS.
  - ALL UTILITIES AND CORRESPONDING STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS AND SPECIFICATIONS.

ENLARGED VIEW  
 SCALE: 1"=10'

PREPARED BY  
**ZNS ENGINEERING**  
 ENGINEERS | PLANNERS | SURVEYORS | LANDSCAPE ARCHITECTS  
 201 56 AVENUE DRIVE EAST BRADENTON, FL 34208  
 EMAIL: ZNS@ZNSENGINEERING.COM | TELEPHONE: 941.748.8080 | FAX: 941.748.3316

**FPL Services, LLC**  
 Development & Construction  
 WEST PALM BEACH, FLORIDA 33407  
 PHONE: 561.552.4893  
 FAX: 561.552.2272

DATE OF FIELD WORK: 03/17/15  
 DATE OF CERTIFICATION: 04/03/15  
 J. N. Gotsch, Jr., P.E.  
 MANATEE COUNTY GOVERNMENT  
 DISTRICT COOLING PLANT  
 325 9TH STREET WEST  
 BRADENTON, FLORIDA 34208  
 P.O. BOX 144  
 ZNS ENGINEERING, LLC  
 201 AVENUE DRIVE EAST  
 BRADENTON, FLORIDA 34208  
 DATE OF CERTIFICATION: 04/03/15  
 J. N. Gotsch, Jr., P.E.

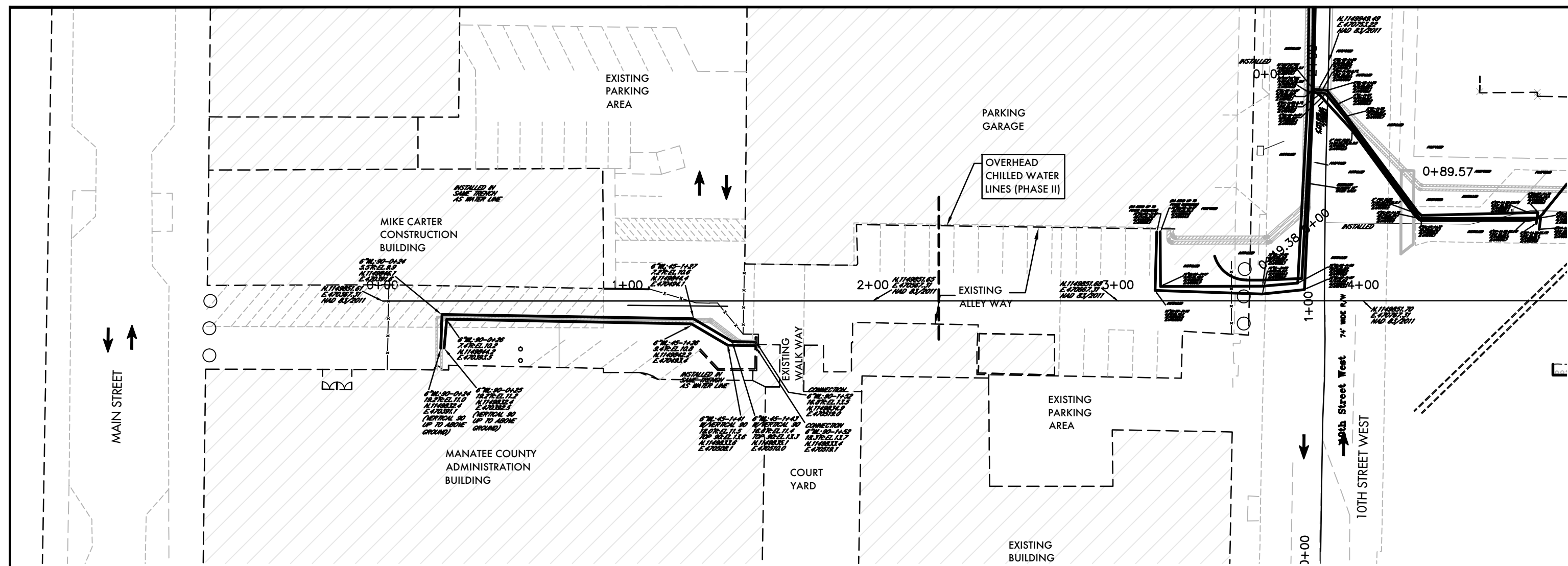
**RECORD DRAWING OF CHILLED WATER LINES**  
 MANATEE COUNTY GOVERNMENT  
 DISTRICT COOLING PLANT  
 325 9TH STREET WEST

FUNCTION	BY	DATE
DESIGNED:	MLC	04/01/15
CHECKED:	MF	04/01/15
REVISIONS:	BY	DATE

DAC PROJECT NUMBER  
 4542-94-000-300-897

CIVIL PLAN

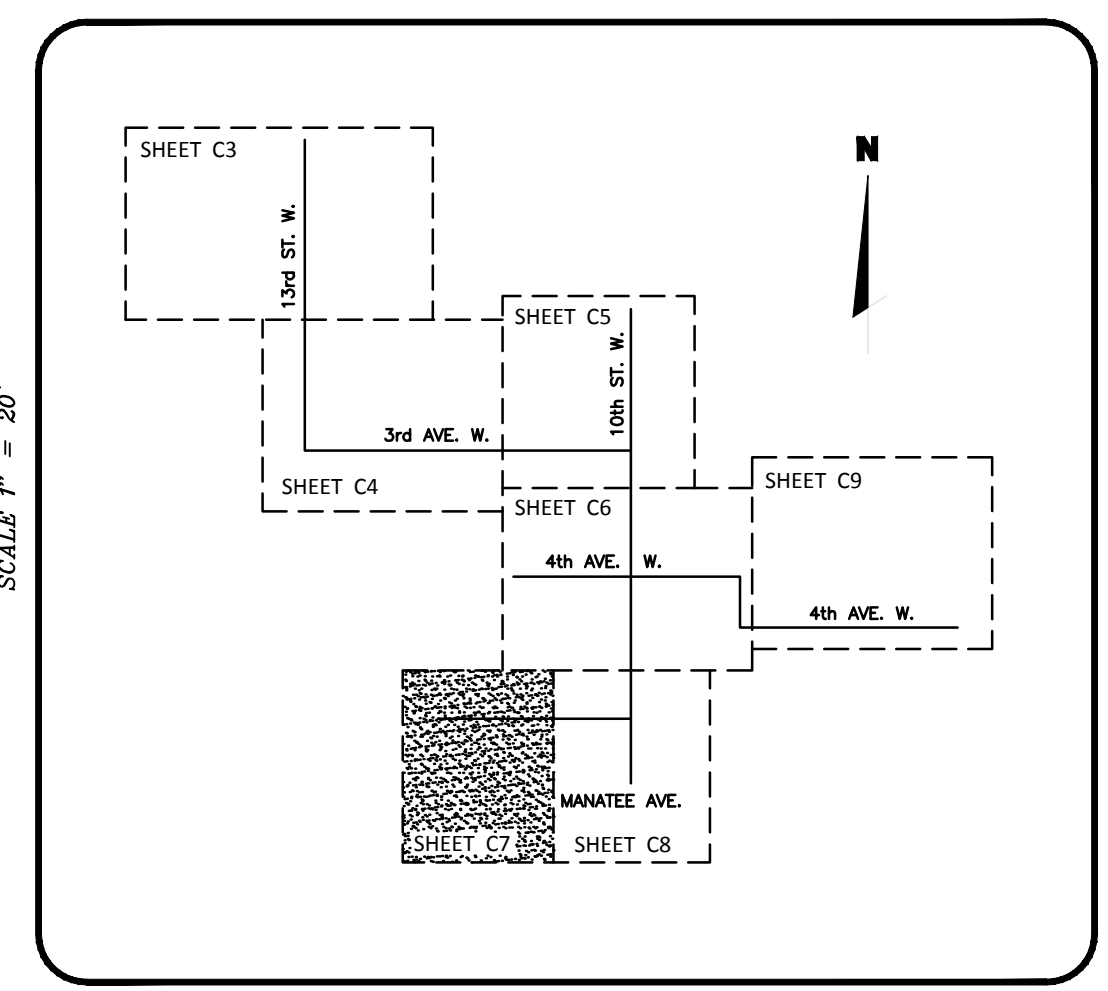
SHEET NUMBER  
**C7**



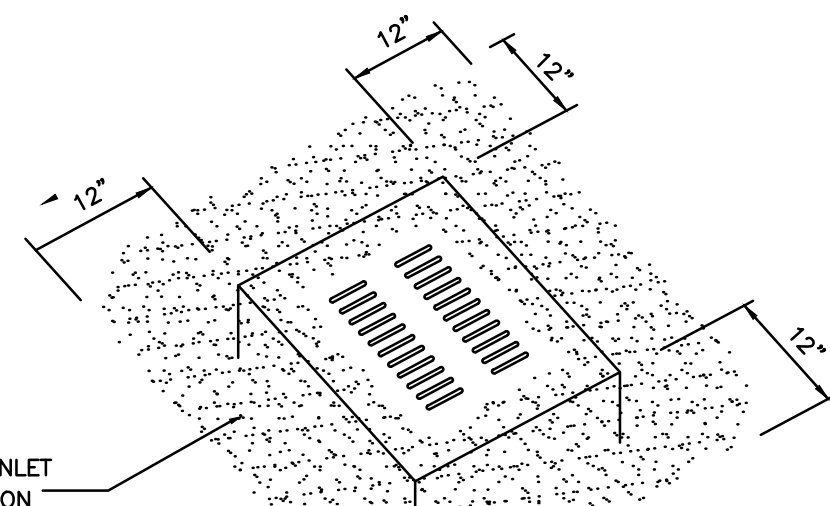
**MANATEE COUNTY ADMINISTRATION BUILDING ALLEY PHASING PLAN**  
SCALE = 1"=40'

**LEGEND**

- PROPOSED CHILLER LINE
- PROPOSED CONDUIT
- PROPOSED OVER HEAD CHILLED WATER LINE
- PROPOSED OVER HEAD CONDUIT
- EXISTING SIDEWALK
- EXISTING ASPHALT PAVEMENT
- EX. WATER MAIN
- EX. SANITARY LINE
- STANDARD TRENCH
- \*SAWCUT AND REMOVE SURFACE. RESTORE TO ORIGINAL CONDITION UPON COMPLETION.
- DIRECTIONAL DRILL PIT
- \*SAWCUT AND REMOVE SURFACE. RESTORE TO ORIGINAL CONDITION UPON COMPLETION. REPLACE ASPHALT IN 2 LIFTS TO ALLOW CONTINUOUS 3/4" ASPHALT RESURFACING.
- FM — EX. FORCE MAIN
- D — EX. DRAINAGE
- G — EX. GAS MAIN
- OE — EX. OVER HEAD ELECTRIC
- BFOC — EX. MANATEE COUNTY FIBER OPTIC CABLE
- BVER — EX. VERIZON CABLE
- EROSION CONTROL DEVICE (SEE DETAIL SHEET)
- ASPHALT TO BE MILLED AND RESURFACED \*MILL 3/4" ASPHALT & RESURFACE WITH 3/4" TYPE S1 ASPHALT. RESTORE STAMPED ASPH CROSSWALK IN ACCORDANCE WITH DETA STRIPING TO BE RESTORED IN ITS ORIGINAL

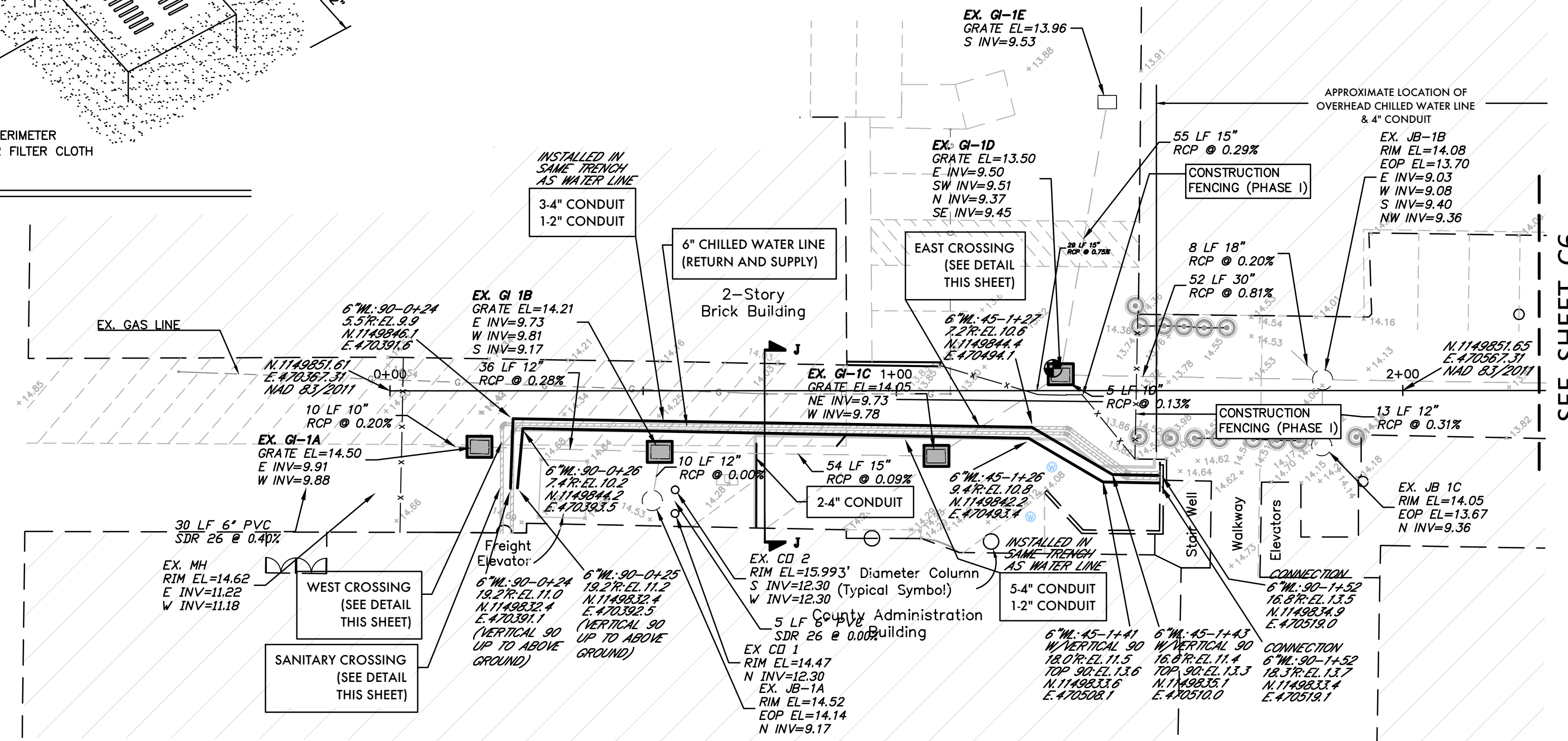


**KEY MAP**  
(NOT TO SCALE)

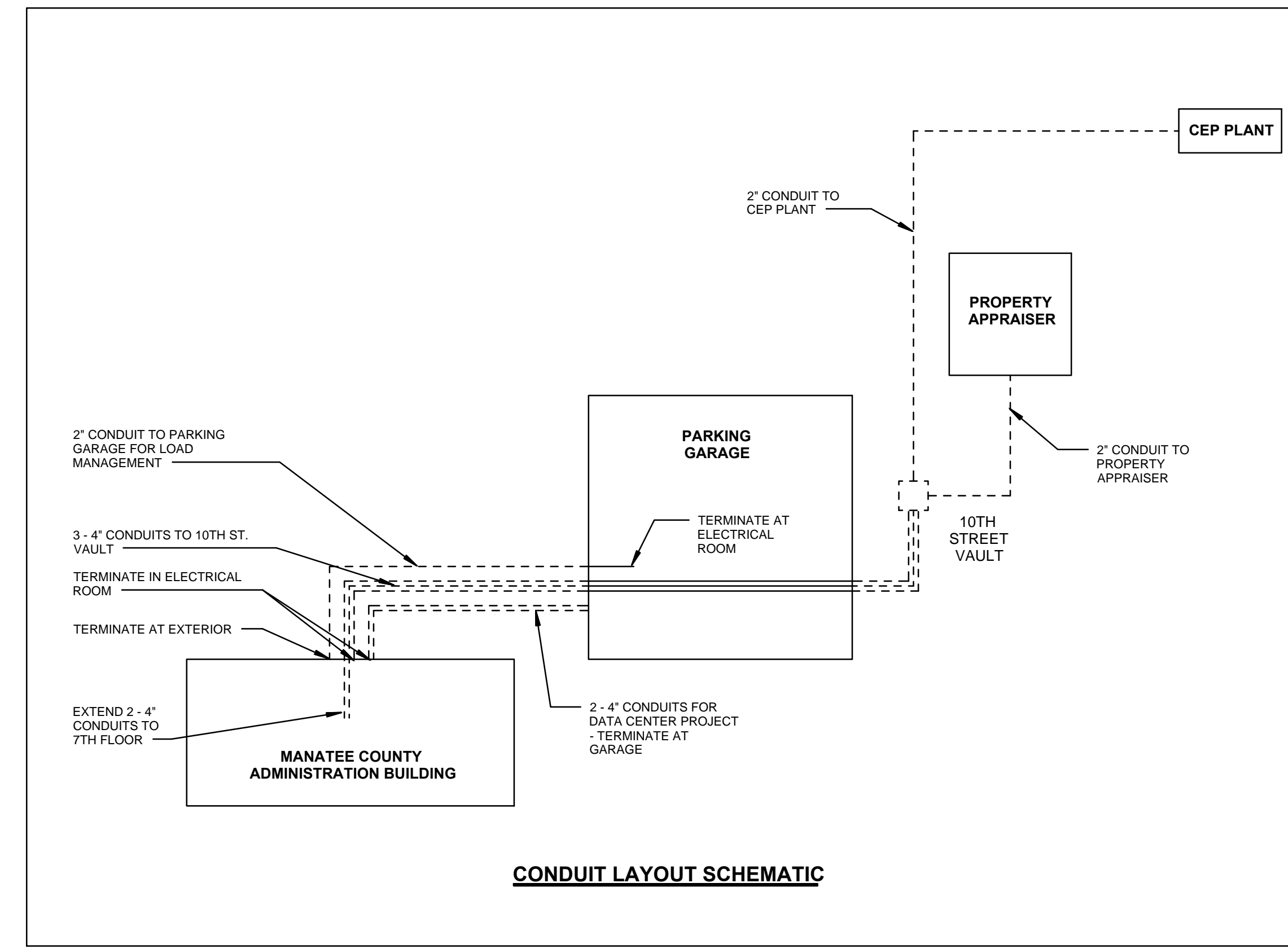


FILTER CLOTH TO BE PLACED UNDER INLET GRATE DURING SITE WORK CONSTRUCTION

HAY BALES SURROUNDING ENTIRE PERIMETER OF INLET MAY BE SUBSTITUTED FOR FILTER CLOTH



SEE SHEET C6



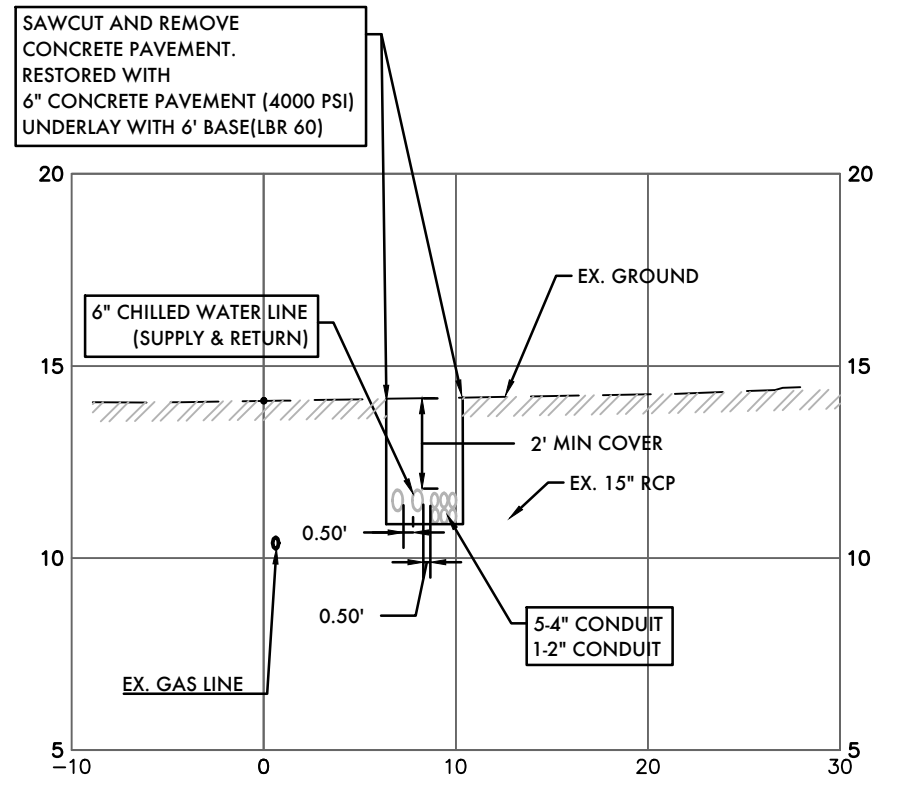
**CONDUIT LAYOUT SCHEMATIC**

**ACRONYM LEGEND:**

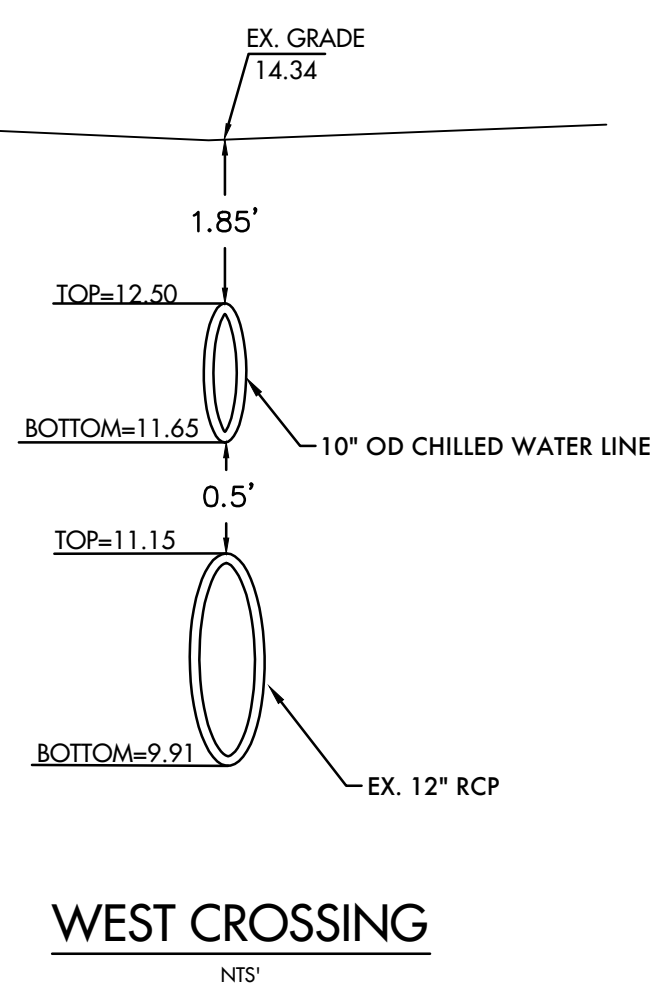
- L — LEFT
- R — RIGHT
- EL. — ELEVATION
- WL — WATER LINE
- GV — GATE VALVE
- T.O.N. — TOP OF NUT
- 45 — 45° BEND
- 90 — 90° BEND
- RED. — REDUCER

**RECORD DRAWING NOTES:**

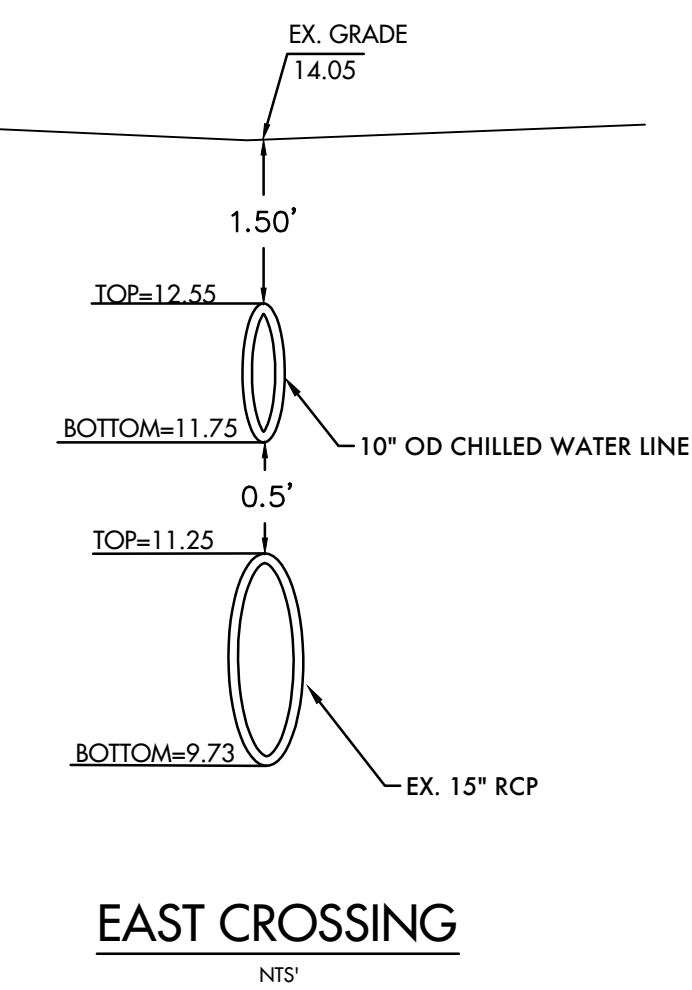
1. ALL RECORD DRAWING INFORMATION SHOWN IN ITALICS.
2. ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM, MANATEE COUNTY BENCHMARK Pid # DL1768 LOCATED AT N.1150998.08 E.469907.05 NAD 1983/2011 AND 27 29 56.7 (N) LAT. 082 34 28.5 (W) LONG. SEE SHEET C3 FOR PLAN VIEW LOCATION AND DETAILS. ELEVATION = 5.00.
3. GRAPHICAL SYMBOLS OF UTILITIES ARE EXAGGERATED FOR CLARITY.
4. ALL VALVES NOTED ON CONSTRUCTION PLANS ARE AMERICAN FLOW CONTROL SERIES 2500.
5. ALL WATER MAINS WERE WERE INSTALLED WITH (HDPE) SDR 11 MATERIAL.
6. ALL ASBUILT ELEVATIONS ARE TO THE ACTUAL TOP OF PIPE OR FITTING EXCEPT AT DIRECTIONAL BORE LOCATIONS WHERE CASINGS ARE NOTED. ASBUILT ELEVATIONS ARE TO THE TOP OF CASING AT THOSE PARTICULAR LOCATIONS.



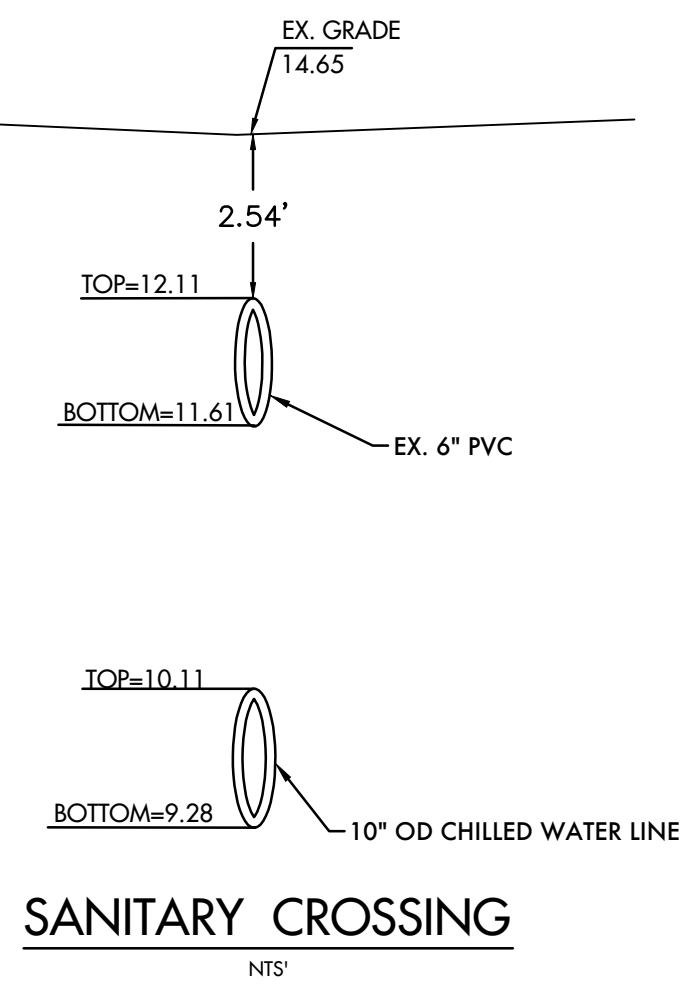
**SECTION J-J**  
VERTICAL SCALE: 1"=5'  
HORIZONTAL SCALE: 1"=10'



**WEST CROSSING**  
NTS'



**EAST CROSSING**  
NTS'



**SANITARY CROSSING**  
NTS'

- NOTES**
1. ALL EXISTING UTILITIES SHOWN WERE LOCATED USING BEST AVAILABLE RESOURCES. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS.
  2. CONTRACTOR TO COORDINATE PARKING LOT AND DRIVEWAY CLOSURES WITH CITY OF BRADENTON PUBLIC WORKS.
  3. ALL LANE CLOSURE/MAINTENANCE OF TRAFFIC SHALL FOLLOW FOOT MAINTENANCE OF TRAFFIC STANDARDS.
  4. ALL ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM.

**PREPARED BY**

**ZNS ENGINEERING**

ENGINEERS | PLANNERS | SURVEYORS | LANDSCAPE ARCHITECTS

201 5th AVENUE DRIVE EAST BRADENTON, FL 34208  
E-MAIL: ZNS@ZNSENGINEERING.COM | TELEPHONE: 941.748.8080 | FAX: 941.748.3316

**FPL Services, LLC**

Development & Construction

6001 VILLAGE BLVD., SUITE 300  
BRADENTON, FLORIDA 34107  
TEL: 305.852.4893  
FAX: 305.852.2272  
WWW.FPL.COM

ENGINEER'S CERTIFICATE

I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN HEREON WERE LOCATED USING THE BEST AVAILABLE RESOURCES. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS. I HAVE NOT CONDUCTED A FIELD SURVEY TO VERIFY THE ACCURACY OF THE INFORMATION SHOWN ON THESE RECORD DRAWINGS. I HAVE NOT CONDUCTED A FIELD SURVEY TO VERIFY THE ACCURACY OF THE INFORMATION SHOWN ON THESE RECORD DRAWINGS. I HAVE NOT CONDUCTED A FIELD SURVEY TO VERIFY THE ACCURACY OF THE INFORMATION SHOWN ON THESE RECORD DRAWINGS.

MANATEE COUNTY GOVERNMENT  
DISTRICT COOLING PLANT  
323 9TH STREET WEST  
BRADENTON, FLORIDA 34205

DATE OF FIELD WORK: 03/17/15  
DATE OF CERTIFICATION: 03/17/15

**RECORD DRAWING OF CHILLED WATER LINES**

MANATEE COUNTY GOVERNMENT  
DISTRICT COOLING PLANT  
323 9TH STREET WEST  
BRADENTON, FLORIDA 34205

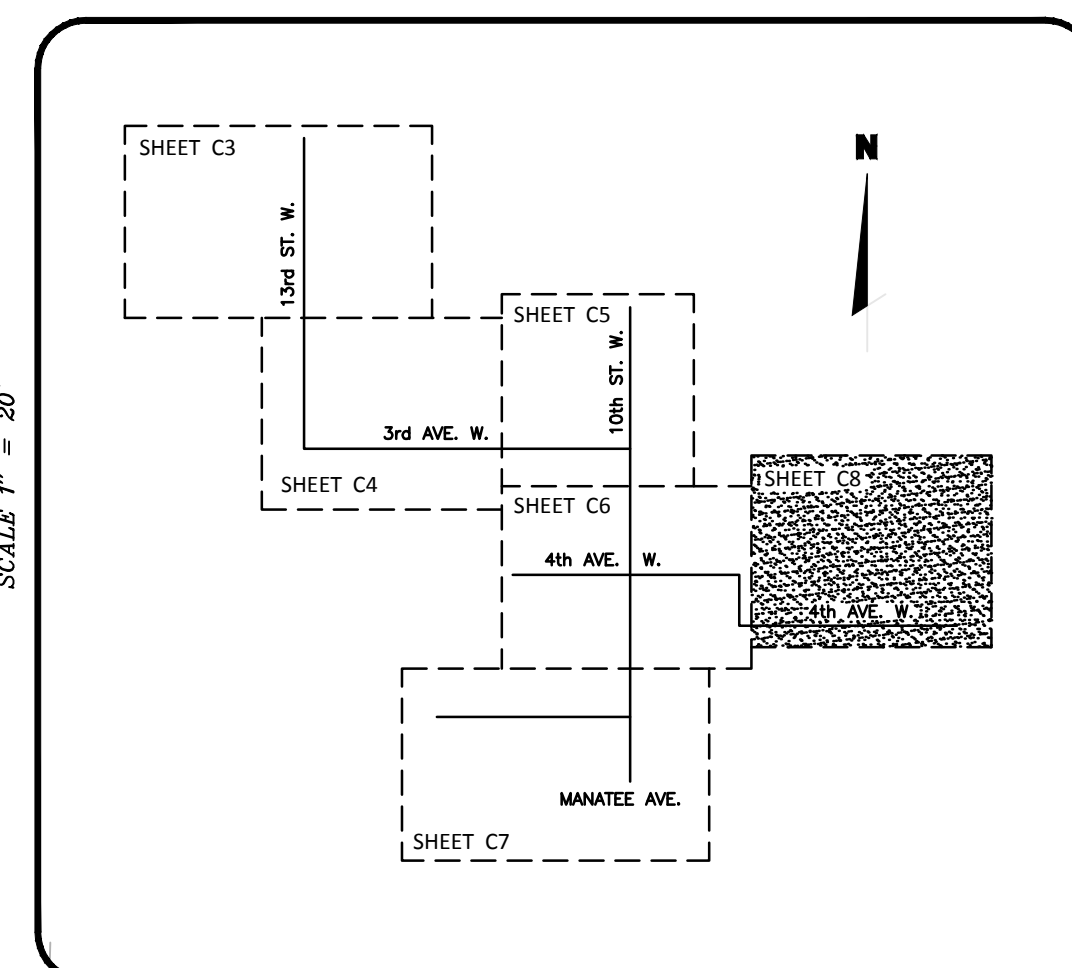
FUNCTION	BY	DATE
DESIGNED:	MLC	04/01/15
CHECKED:	MF	07/21/14
REVISIONS	BY	DATE

DAC PROJECT NUMBER  
4542-94-000-300-897

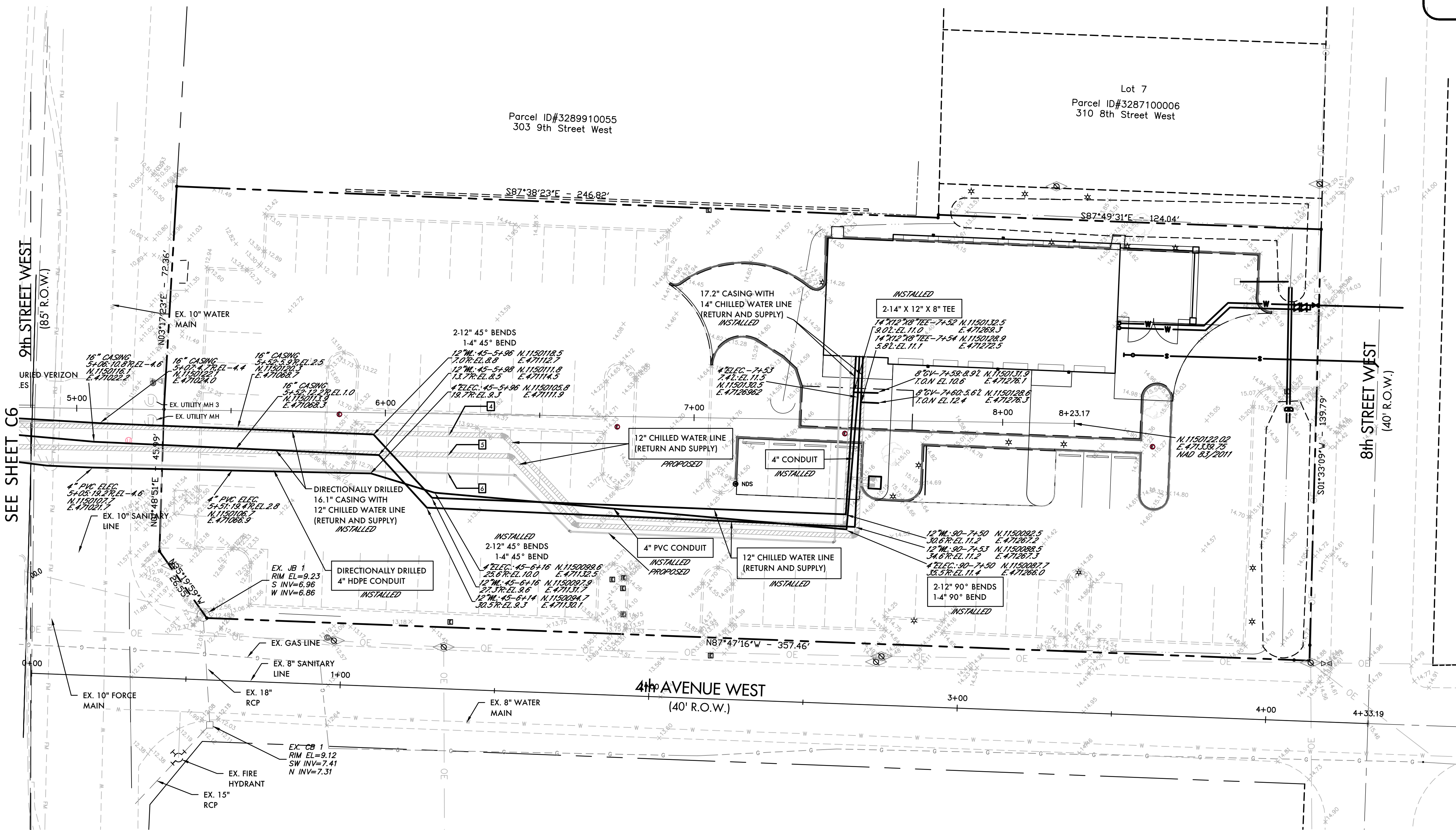
CIVIL PLAN

SHEET NUMBER  
**C8**

- RECORD DRAWING NOTES:**
- ALL RECORD DRAWING INFORMATION SHOWN IN ITALICS.
  - ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM. MANATEE COUNTY BENCHMARK Pld # DL1768 LOCATED AT N.1150998.08 E.469907.05 NAD 1983/2011 AND 27 29 56.7 (N) LAT. 082 34 28.5 (W) LONG. SEE SHEET C3 FOR PLAN VIEW LOCATION AND DETAILS. ELEVATION = 5.00.
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  - ALL VALVES NOTED ON CONSTRUCTION PLANS ARE AMERICAN FLOW CONTROL SERIES 2500.
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- LEGEND**
- PROPOSED CHILLER LINE
  - PROPOSED CONDUIT
  - PROPOSED OVER HEAD CHILLED WATER LINE
  - PROPOSED OVER HEAD CONDUIT
  - EXISTING SIDEWALK
  - EXISTING ASPHALT PAVEMENT
  - EX. WATER MAIN
  - EX. SANITARY LINE
  - STANDARD TRENCH
  - \*SAWCUT AND REMOVE SURFACE. RESTORE TO ORIGINAL CONDITION UPON COMPLETION.
  - DIRECTIONAL DRILL PIT
  - \*SAWCUT AND REMOVE SURFACE. RESTORE TO ORIGINAL CONDITION UPON COMPLETION. REPLACE ASPHALT IN 3' LIFTS TO ALLOW CONTINUOUS 3/4" ASPHALT RESURFACING.
  - EX. FORCE MAIN
  - EX. DRAINAGE
  - EX. GAS MAIN
  - EX. OVER HEAD ELECTRIC
  - EX. MANATEE COUNTY FIBER OPTIC CABLE
  - EX. VERIZON CABLE
  - EROSION CONTROL DEVICE (SEE DETAIL SHEET)
  - ASPHALT TO BE MILLED AND RESURFACED WITH 3/4" ASPHALT & RESURFACE TYPE S-1 ASPHALT. RESTORE STAMPS & CROSSWALKS IN ACCORDANCE WITH STRIPING TO BE RESTORED IN ITS CONDITION.



- NOTES**
- ALL EXISTING UTILITIES SHOWN WERE LOCATED USING BEST AVAILABLE RESOURCES. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS.
  - CONTRACTOR TO COORDINATE PARKING LOT AND DRIVEWAY CLOSURES WITH MANATEE COUNTY AND/OR PROPERTY OWNER.
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  - ANY AND ALL FIELD ADJUSTMENTS MUST BE REVIEWED AND APPROVED BY CITY OF BRADENTON INSPECTOR.
  - CHILLED WATER LINES WILL BE MAINTAINED BY MANATEE COUNTY.
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  - WORKING HOURS ARE FROM 7:00 A.M. TO 4:00 P.M. ALL ROADS SHALL BE LEFT DRIVEABLE AT THE END OF EACH DAY. BASE COURSE SHALL BE PLACED UP TO GRADE.
  - MACHINERY AND EQUIPMENT SHALL BE STORED AT THE END OF EACH WORKING DAY.
  - ALL ROADWAY OPENINGS/PITS LEFT OPEN DURING FULL ROADWAY CLOSURES SHALL BE FENCED AND MARKED WITH FLASHING LIGHTS AT THE END OF EACH DAY.
  - CONTRACTOR IS RESPONSIBLE FOR PROVIDING GEOTECHNICAL TESTING RESULTS FOR ALL ROADWAY COMPACTION AND PAVING. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS.
  - CONTRACTOR TO KEEP BORE LOG DURING DIRECTIONAL DRILLING OPERATIONS. PIPE DEPTH AND STATION/OFF-SET SHALL BE RECORDED EVERY 50' ON RECORD DRAWINGS IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS.
  - ALL UTILITIES AND CORRESPONDING STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS AND SPECIFICATIONS.

**FPL Services, LLC**  
 Development & Construction  
 600 VILLAGE BLVD., SUITE 100  
 TAMPA, FLORIDA 33607  
 TEL: 305.552.4855  
 FAX: 305.899.2272  
 www.fpl.com

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS SUBMITTED HERewith COMPLY WITH EXISTING INTERPRETATIONS AND PROVISIONS OF THE APPLICABLE BUILDING CODES. THIS DRAWING IS THE SOLE PROPERTY OF "FPL SERVICES, LLC" AND IS AN INSTRUMENT OF SERVICE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF FPL SERVICES, LLC.

I, NATHAN KRAGT, P.E. #69272, CERTIFY THAT I CURRENTLY HOLD AN ACTIVE LICENSE IN THE STATE OF FLORIDA AND AM COMPETENT THROUGH EDUCATION OR EXPERIENCE TO PROVIDE ENGINEERING SERVICES IN THE CIVIL DISCIPLINE CONTAINED IN THIS PLAN. I FURTHER CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE AS DEFINED IN CHAPTER 91G15-18.001 F.A.C. MOREOVER I CERTIFY THAT THE COMPANY OFFERING THE ENGINEERING SERVICES, "ZNS ENGINEERING, LC" HOLDS AN ACTIVE CERTIFICATE OF AUTHORIZATION #27476 TO PROVIDE THE ENGINEERING SERVICE.

**RECORD DRAWING OF CHILLED WATER LINES**  
 MANATEE COUNTY GOVERNMENT  
 DISTRICT COOLING PLANT  
 325 9TH STREET WEST  
 BRADENTON, FLORIDA 34205

FUNCTION	BY	DATE
DESIGNED:	MLC	04/01/15
CHECKED:	MF	04/01/15
REVISIONS	BY	DATE

DAC PROJECT NUMBER  
4542-94-000-300-897

CIVIL PLAN  
SHEET NUMBER  
**C9**

**ENGINEER'S CERTIFICATE**  
 I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND BASED ON THE CERTIFICATION PROVIDED BY THE SURVEYOR OF RECORD, THE IMPROVEMENTS DEPICTED HEREON HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. THE UNDERSIGNED ENGINEER IS NOT CERTIFYING THE ACCURACY OF THE DRAWINGS PREPARED BY THE SURVEYOR.

ZNS ENGINEERING, L.C.  
 BRADENTON, FLORIDA 34206  
 P.O. BOX 8448  
 DATE OF CERTIFICATION: 04/03/2015

**SURVEYOR'S CERTIFICATE**  
 I HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN, SUPERIMPOSED UPON THE DESIGN CONSTRUCTION PLANS ARE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, AND BASED ON OBSERVED IMPROVEMENTS, A TRUE AND CORRECT REPRESENTATION OF THE IMPROVEMENTS AS SHOWN.

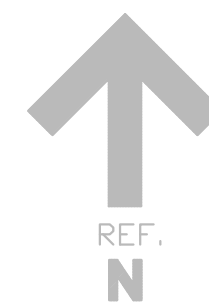
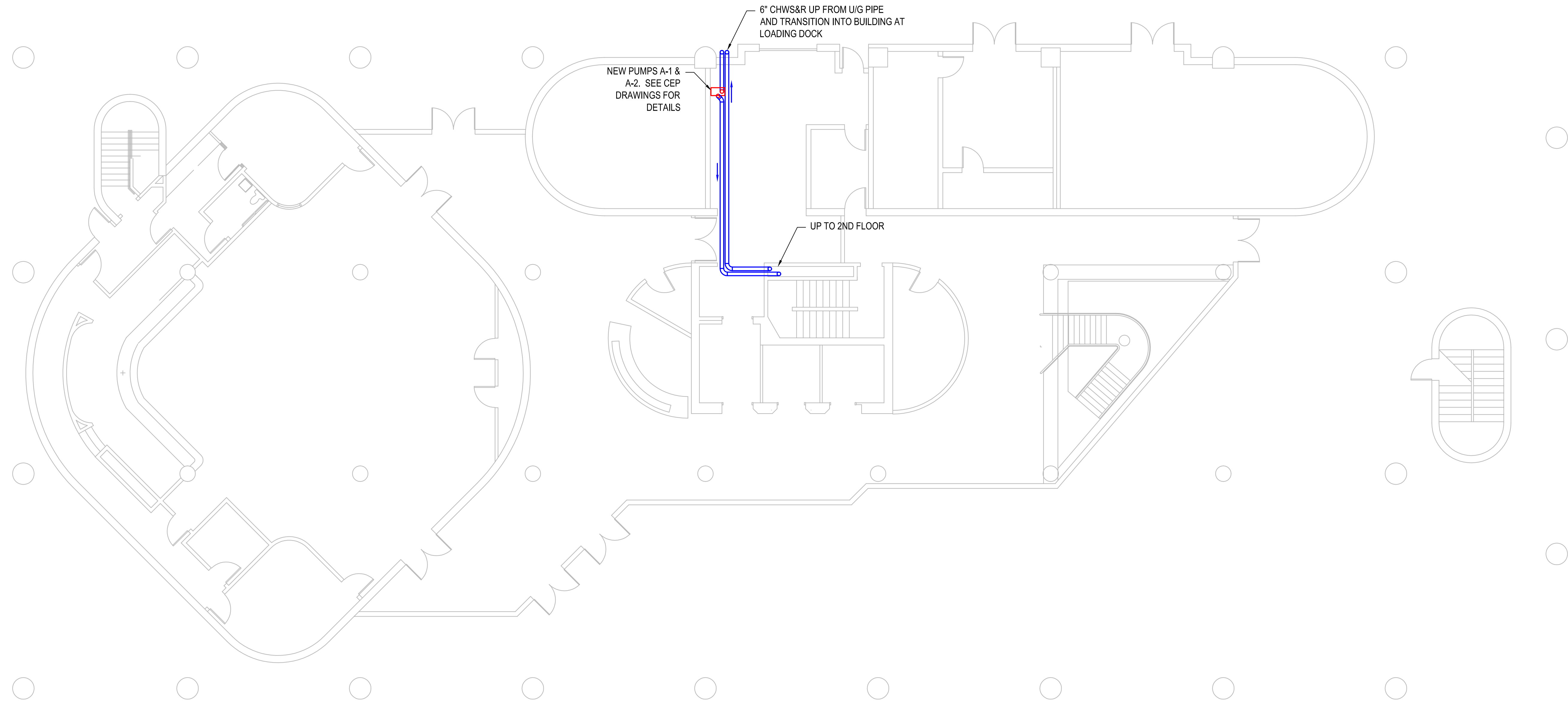
ZNS ENGINEERING, L.C.  
 P.O. BOX 8448  
 BRADENTON, FLORIDA 34206

*J. N. Gatch*  
 JAMES N. GATCH JR. P.E. #4295  
 DATE OF FIELD WORK: 03/17/15  
 DATE OF CERTIFICATION: 04/03/15

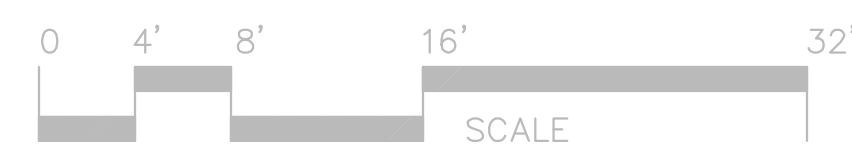
**ACRONYM LEGEND:**  
 L - LEFT  
 R - RIGHT  
 EL. - ELEVATION  
 WL - WATER LINE  
 GV - GATE VALVE  
 T.O.N. - TOP OF NUT  
 45 - 45° BEND  
 90 - 90° BEND  
 RED. - REDUCER

**PREPARED BY**  
**ZNS ENGINEERING**  
 ENGINEERS | PLANNERS | SURVEYORS | LANDSCAPE ARCHITECTS  
 201 56 AVENUE DRIVE EAST BRADENTON, FL 34208  
 EMAIL: ZNS@ZNSENGINEERING.COM | TELEPHONE: 941.748.8080 | FAX: 941.748.3316





1st FLOOR KEY PLAN



**1ST FLOOR - MECH PLAN**  
SCALE: 1/8" = 1'-0"

2701 PRINCE STREET  
FORT WORTH, FL 33916  
PH: (813) 332-4446  
PH: (813) 727-2437  
www.baiinc.com



MANATEE COUNTY CEP  
ADMIN BUILDING  
BRADENTON, FLORIDA

NO.	REVISION	DATE

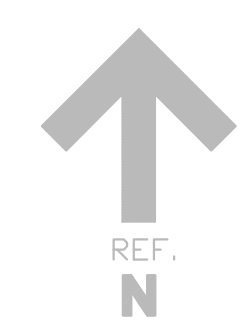
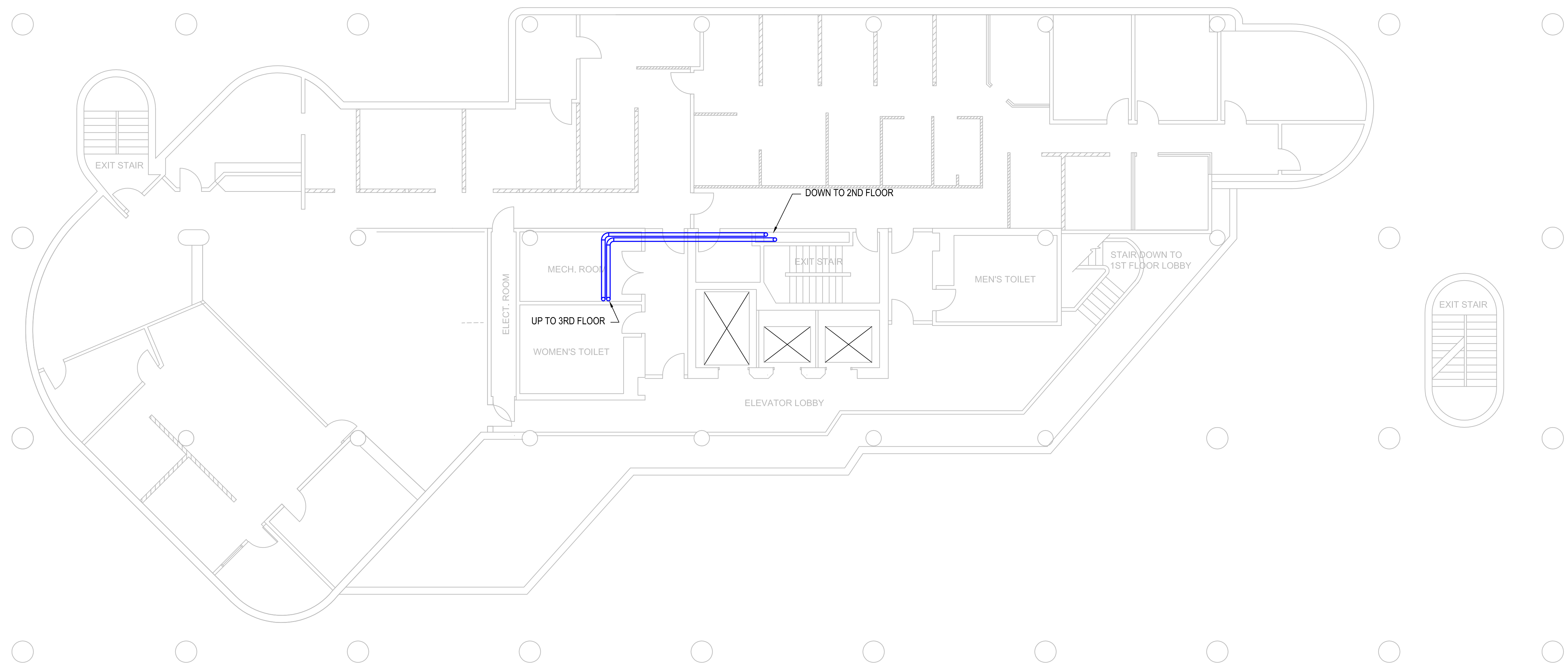
DATE: 06-30-15

DRAWN BY: BFM

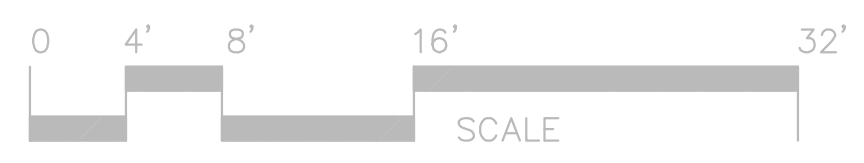
JOB NO.: 2548

DWG. NO.

M-1  
AS-BUILTS



**2ND FLOOR EXISTING CONDITIONS PLAN**



EXACT PARTITION LAYOUT MAY VARY DUE TO FIELD CONDITIONS.

**2ND FLOOR - MECH PLAN**  
SCALE: 1/8" = 1'-0"

2701 PRINCE STREET  
FORT WORTH, FL 33916  
PH: (813) 332-4446  
PH: (813) 727-2437  
PH: (813) 727-2437  
www.B&BConstruction.com  
CNC 06245  
EC 1302022  
CC 1307478



MANATEE COUNTY CEP  
ADMIN BUILDING  
BRADENTON, FLORIDA

NO.	REVISION	DATE

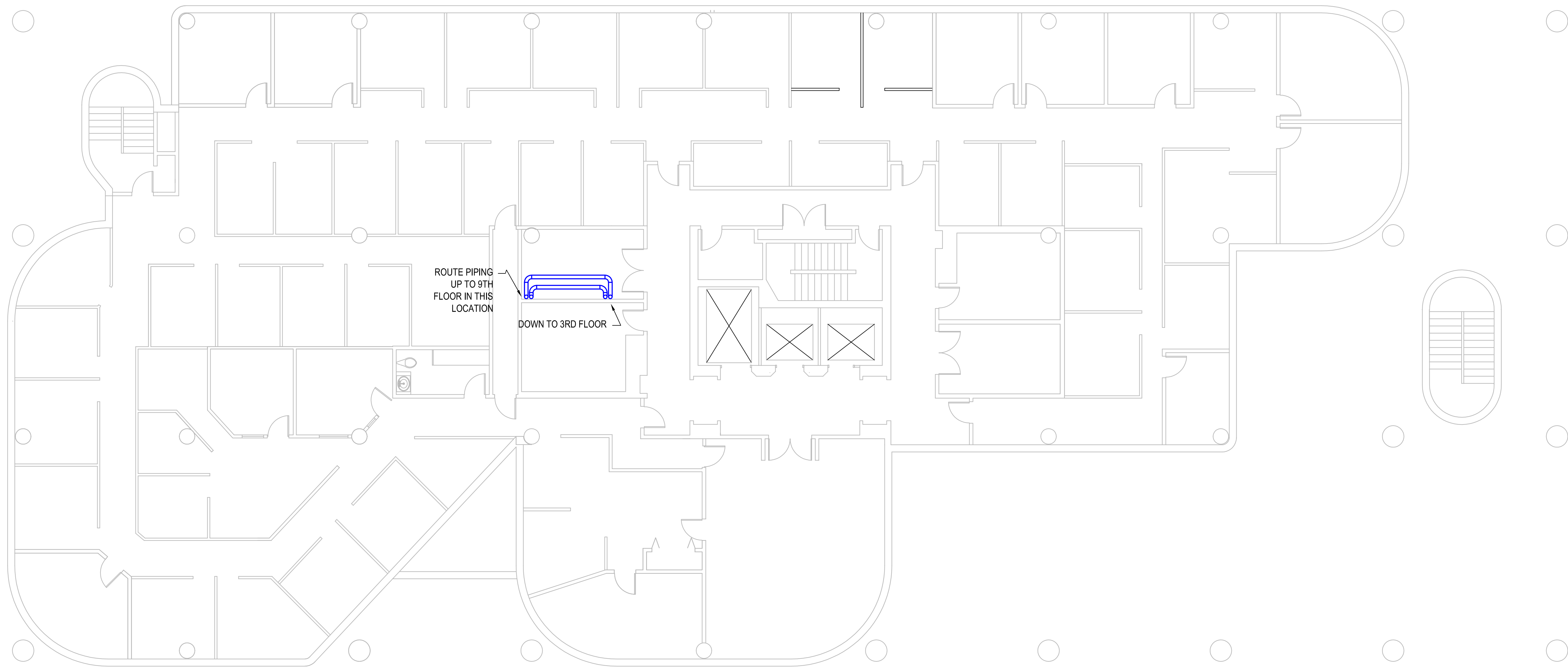
DATE: 06-30-15

DRAWN BY: BFM

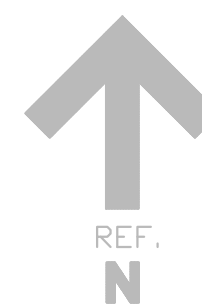
JOB NO.: 2548

DWG. NO.

**M-2**  
AS-BUILTS



3RD TO 9TH FLOOR PLAN



**3RD TO 9TH FLR - MECH PLAN**  
 SCALE:  $\frac{1}{8}$ " = 1'-0"

2701 PRINCE STREET  
 FORT WORTH, FL 33916  
 PH: (813) 332-4466  
 PH: (813) 727-2437  
 PH: (813) 727-2437  
 www.B&IConstruction.com

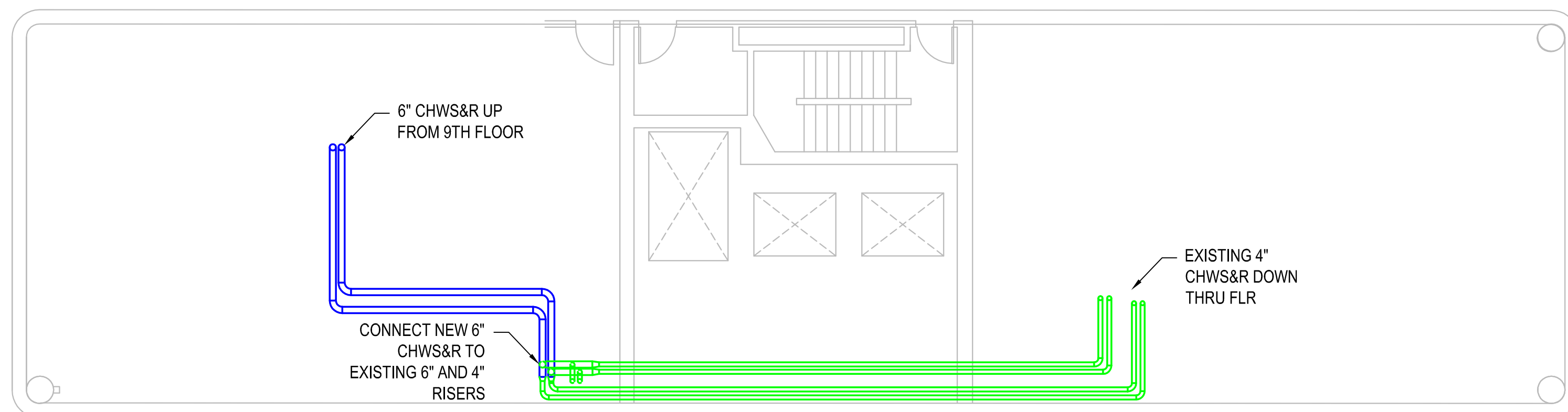


MANATEE COUNTY CEP  
 ADMIN BUILDING  
 BRADENTON, FLORIDA

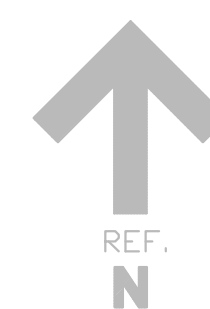
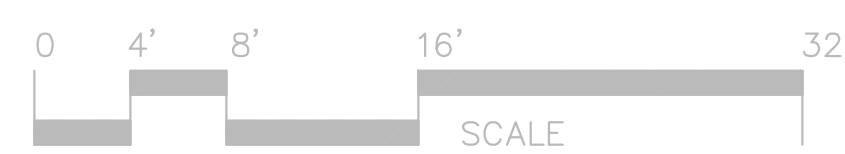
NO.	REVISION	DATE

DATE: 06-30-15  
 DRAWN BY: BFM  
 JOB NO.: 2548

DWG. NO.  
**M-3**  
 AS-BUILTS



PENTHOUSE PLAN



**PENTHOUSE - MECH PLAN**  
SCALE:  $\frac{1}{8}'' = 1'-0''$

2701 PRINCE STREET  
FORT WORTH, FL 33916  
PH: (352) 332-4446  
PH: (813) 727-2437  
www.B&BConstruction.com  
CNC 066245  
EC 13020022  
CC 01074778



MANATEE COUNTY CEP  
ADMIN BUILDING  
BRADENTON, FLORIDA

NO.	REVISION	DATE

DATE: 06-30-15

DRAWN BY: BFM

JOB NO.: 2548

DWG. NO.

**M-4**  
AS-BUILTS

Barcarrota Boulevard  
1st Avenue West

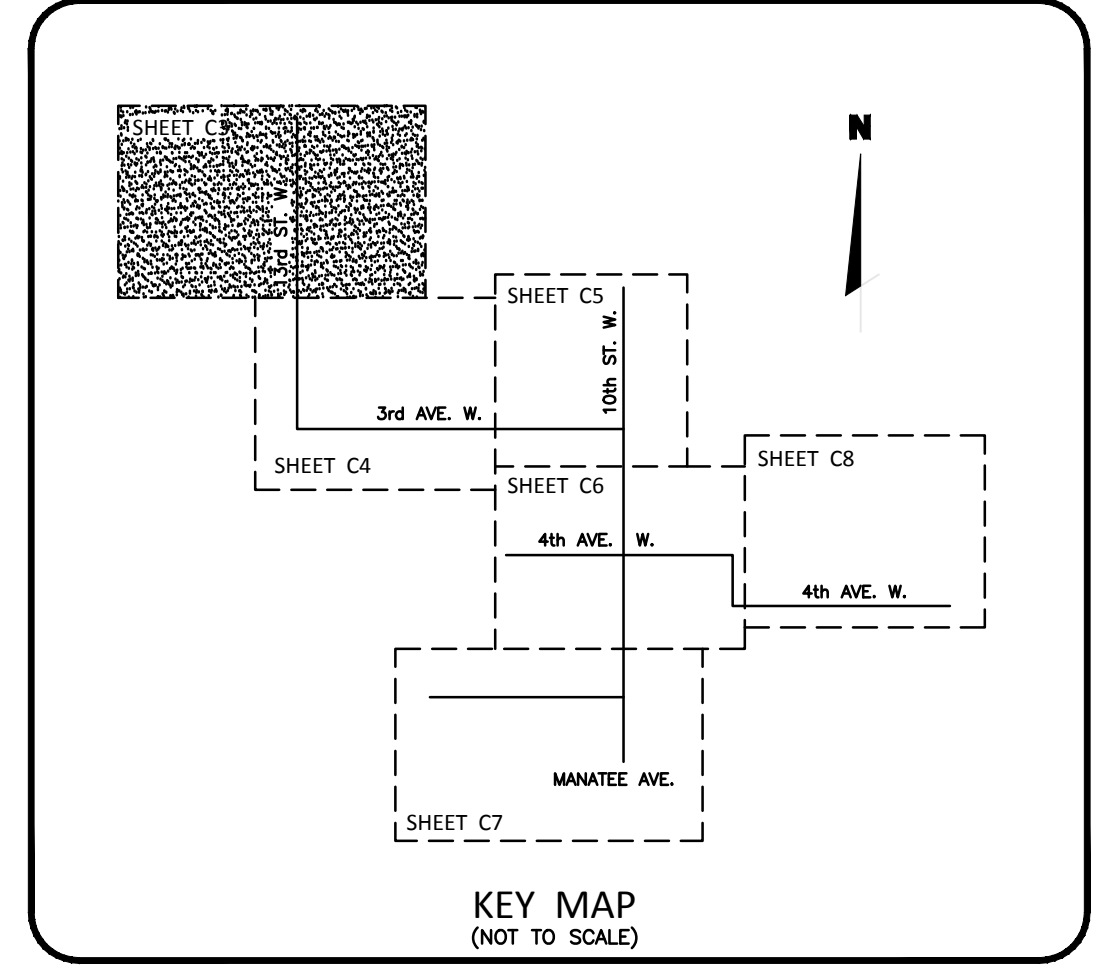
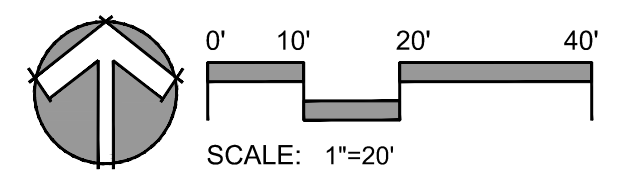
MANATEE COUNTY BENCHMARK  
Pid # DL1768, N.A.V.D. 1988  
ELEV. = 5.00, TOP OF A ROUND  
CONCRETE BASE THE SUPPORTS AN  
ALUMINUM LIGHT POLE. 174.5 FEET  
WEST OF THE CENTERLINE OF 13TH ST. W.  
AND 50.0 FEET SOUTH OF THE CENTERLINE  
OF BARCARROTA BLVD. NEAR THE SIGN  
OF THE MANATEE CENTRAL LIBRARY.

**ACRONYM LEGEND:**

- L - LEFT
- R - RIGHT
- EL. - ELEVATION
- WL - WATER LINE
- GV - GATE VALVE
- T.O.N. - TOP OF NUT
- 45 - 45° BEND
- 90 - 90° BEND
- RED. - REDUCER

**RECORD DRAWING NOTES:**

1. ALL RECORD DRAWING INFORMATION SHOWN IN ITALICS.
2. ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM. MANATEE COUNTY BENCHMARK Pid # DL1768 LOCATED AT N.1150998.08 E.469907.05 NAD 1983/2011 AND 27 29 56.7 (N) LAT. 082 34 28.5 (W) LONG. SEE SHEET C3 FOR PLAN VIEW LOCATION AND DETAILS. ELEVATION = 5.00.
3. GRAPHICAL SYMBOLS OF UTILITIES ARE EXAGGERATED FOR CLARITY.
4. ALL VALVES NOTED ON CONSTRUCTION PLANS ARE AMERICAN FLOW CONTROL SERIES 2500.
5. ALL WATER MAINS WERE INSTALLED WITH (HDPE) SDR 11 MATERIAL.
6. ALL ASBUILT ELEVATIONS ARE TO THE ACTUAL TOP OF PIPE OR FITTING EXCEPT AT DIRECTIONAL BORE LOCATIONS WHERE CASINGS ARE NOTED. ASBUILT ELEVATIONS ARE TO THE TOP OF CASING AT THOSE PARTICULAR LOCATIONS.



**FPL Services, LLC**  
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Tel: 305.552.4893  
www.fpl.com

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS SUBMITTED HERewith COMPLY WITH EXISTING INTERPRETATIONS AND PROVISIONS OF THE APPLICABLE BUILDING CODES. THIS DRAWING IS THE SOLE PROPERTY OF "FPL SERVICES, LLC" AND IS AN INSTRUMENT OF SERVICE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF FPL SERVICES, LLC.

I, NATHAN KRAGT, P.E. #69272, CERTIFY THAT I CURRENTLY HOLD AN ACTIVE LICENSE IN THE STATE OF FLORIDA AND AM COMPETENT THROUGH EDUCATION OR EXPERIENCE TO PROVIDE ENGINEERING SERVICES IN THE CIVIL DISCIPLINE CONTAINED IN THIS PLAN. I FURTHER CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE AS DEFINED IN CHAPTER 6105-18.001 F.A.C. MOREOVER, I CERTIFY THAT THE COMPANY OFFERING THE ENGINEERING SERVICES, "ZNS ENGINEERING, L.C." HOLDS AN ACTIVE CERTIFICATE OF AUTHORIZATION #27476 TO PROVIDE THE ENGINEERING SERVICE.

NATHAN J. KRAGT  
PROFESSIONAL ENGINEER #69272

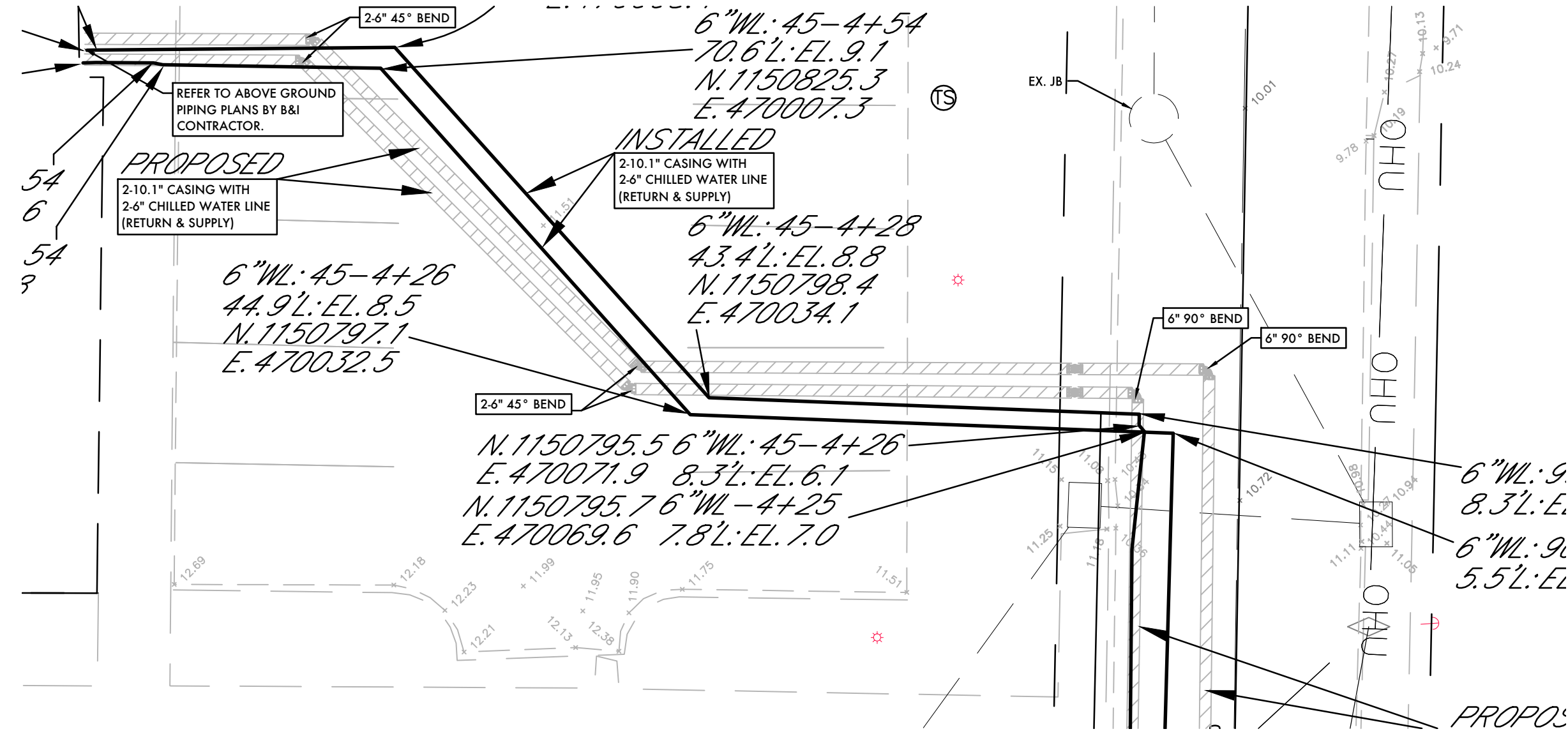
**RECORD DRAWING OF CHILLED WATER LINES**  
MANATEE COUNTY GOVERNMENT  
DISTRICT COOLING PLANT  
3223 9TH STREET WEST  
BRADENTON, FLORIDA 34205

FUNCTION	BY	DATE
DESIGNED:	MLC	04/01/15
CHECKED:	MF	07/21/14
REVISIONS	BY	DATE

DAC PROJECT NUMBER  
4542-94-000-300-897

CIVIL PLAN  
SHEET NUMBER  
**C3**

- LEGEND**
- PROPOSED CHILLER LINE
  - PROPOSED CONDUIT
  - PROPOSED OVER HEAD CHILLED WATER LINE
  - PROPOSED OVER HEAD CONDUIT
  - EXISTING SIDEWALK
  - EXISTING ASPHALT PAVEMENT
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  - STANDARD TRENCH
  - EROSION CONTROL DEVICE (SEE DETAIL SHEET)
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  - \*MILL 3/4" ASPHALT & RESURFACE WITH 3/4" TYPE S1 ASPHALT. RESTORE STAMPED ASPHALT CROSSWALKS IN ACCORDANCE WITH DETAIL STRIPING TO BE RESTORED IN ITS ORIGINAL LOCATION.
- FM - EX. FORCE MAIN
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  - G - EX. GAS MAIN
  - OE - EX. OVER HEAD ELECTRIC
  - EX. MANATEE COUNTY FIBER OPTIC CABLE
  - BVER - EX. VERIZON CABLE



ENLARGED VIEW-13TH STREET WEST (NORTH)  
SCALE 1"=10'

**NOTES**

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15. ALL UTILITIES AND CORRESPONDING STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS AND SPECIFICATIONS.

PREPARED BY  
**ZNS ENGINEERING**  
ENGINEERS | PLANNERS | SURVEYORS | LANDSCAPE ARCHITECTS  
201 5th AVENUE DRIVE EAST BRADENTON, FL 34208  
EMAIL: ZNS@ZNSENG.COM | TELEPHONE: 941.748.8080 | FAX: 941.748.3316

**ENGINEER'S CERTIFICATE**  
I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND BASED ON THE CERTIFICATION PROVIDED BY THE SURVEYOR OF RECORD, THE IMPROVEMENTS DEPICTED HEREON HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. THE UNDERSIGNED ENGINEER IS NOT CERTIFYING THE ACCURACY OF THE DRAWINGS PREPARED BY THE SURVEYOR.

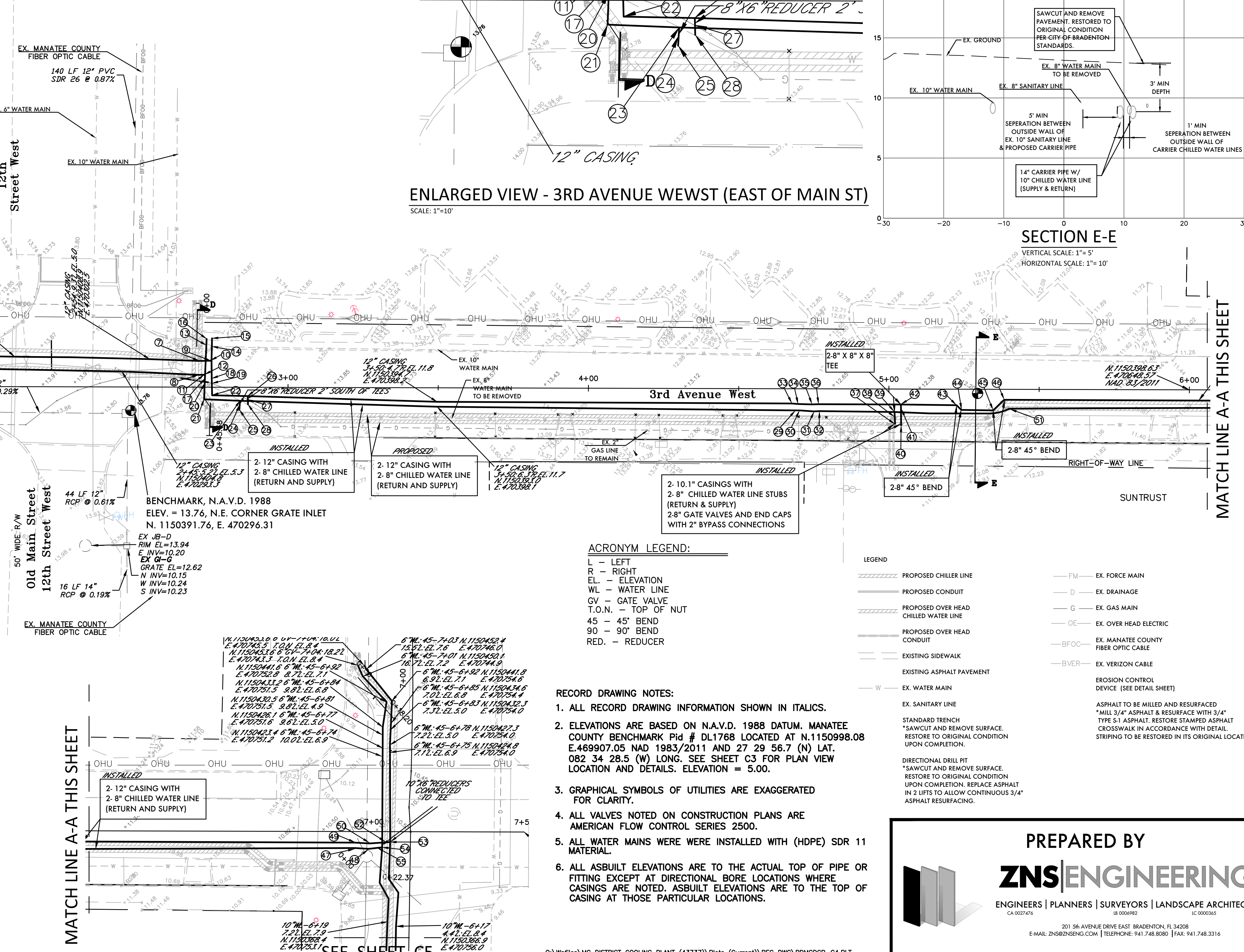
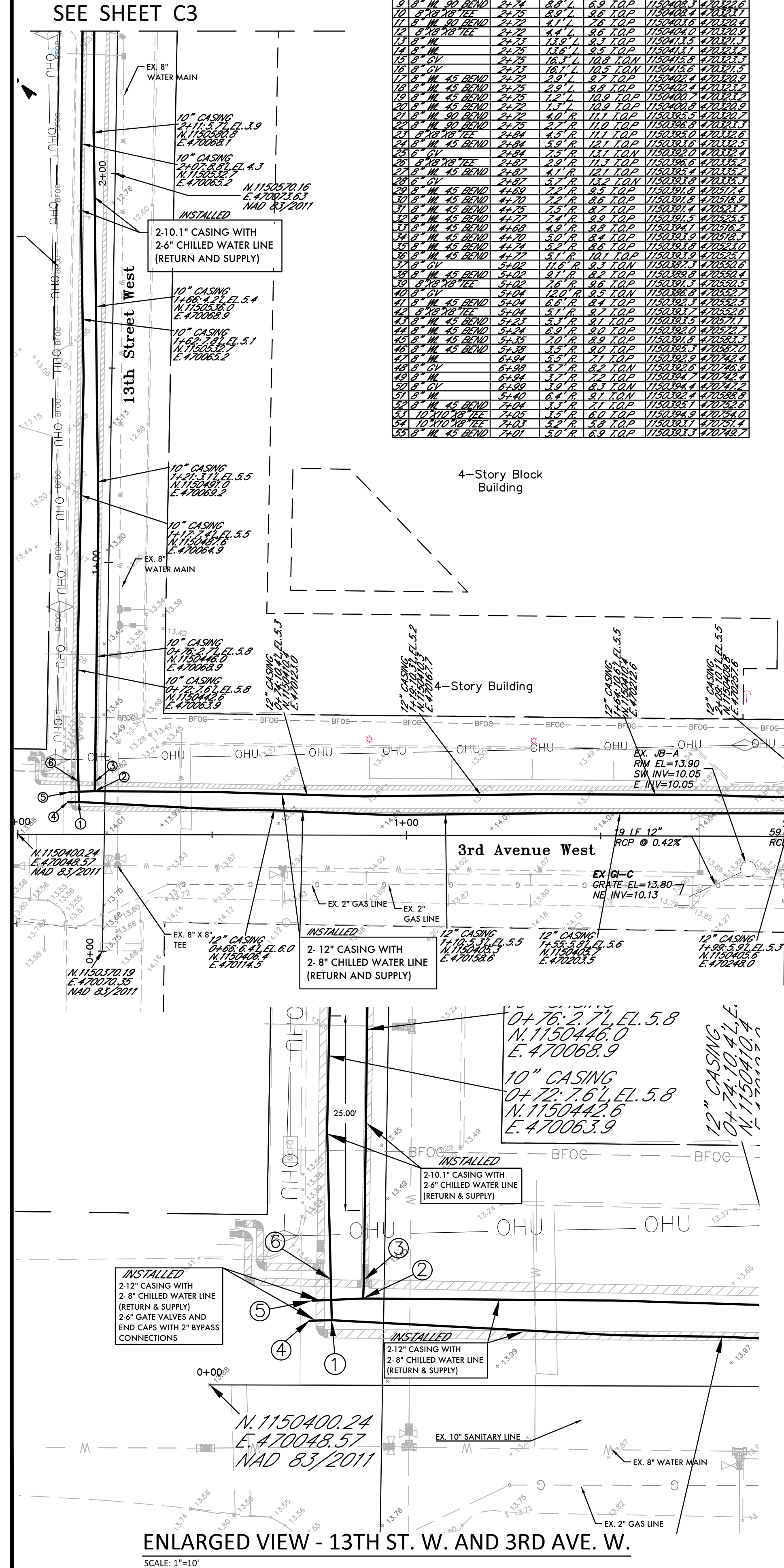
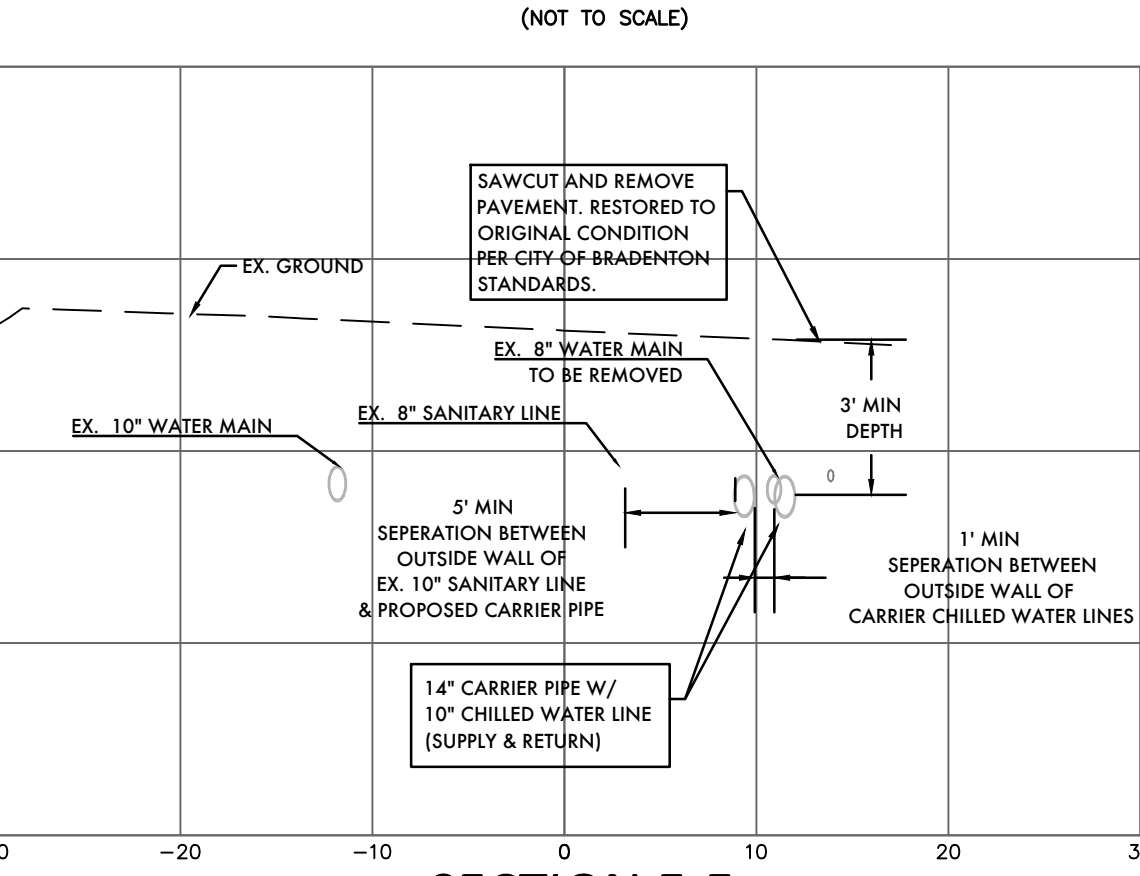
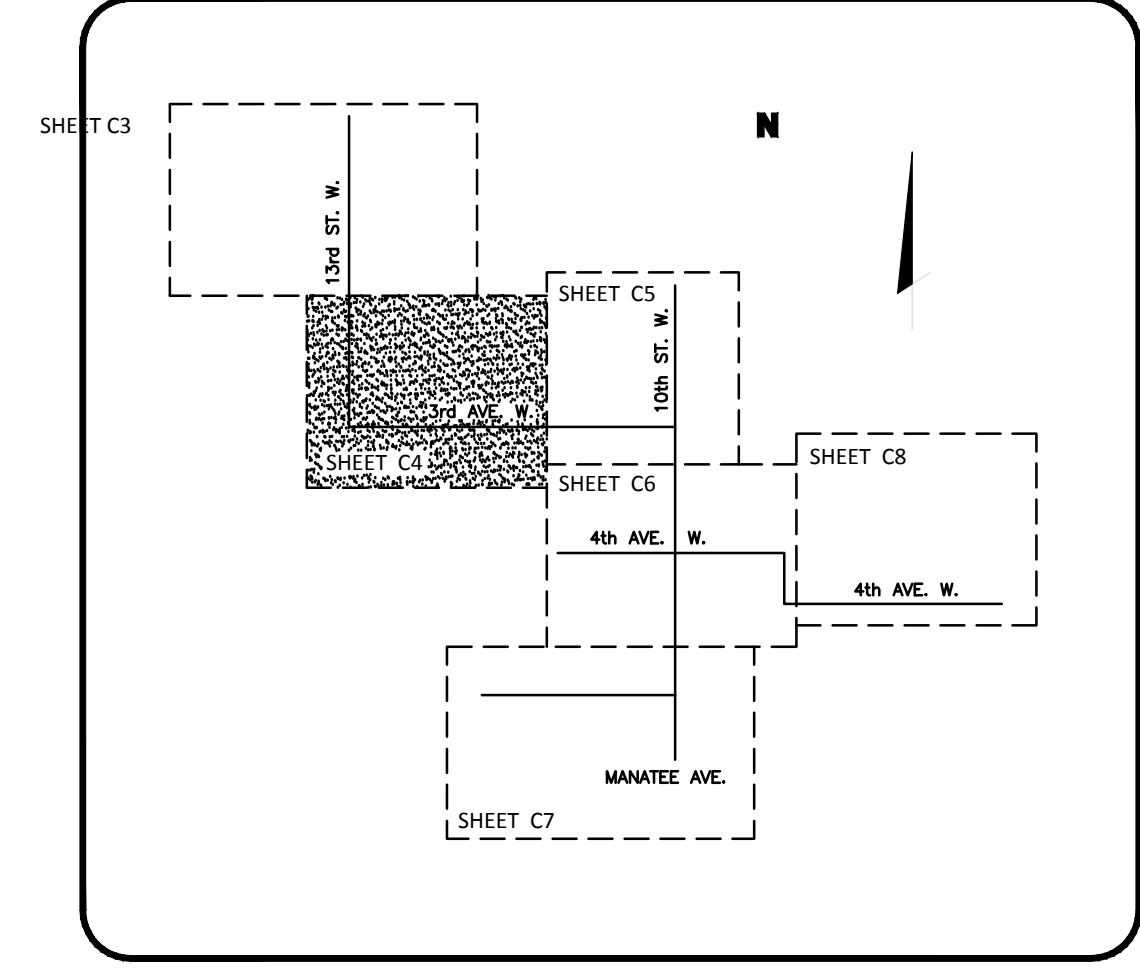
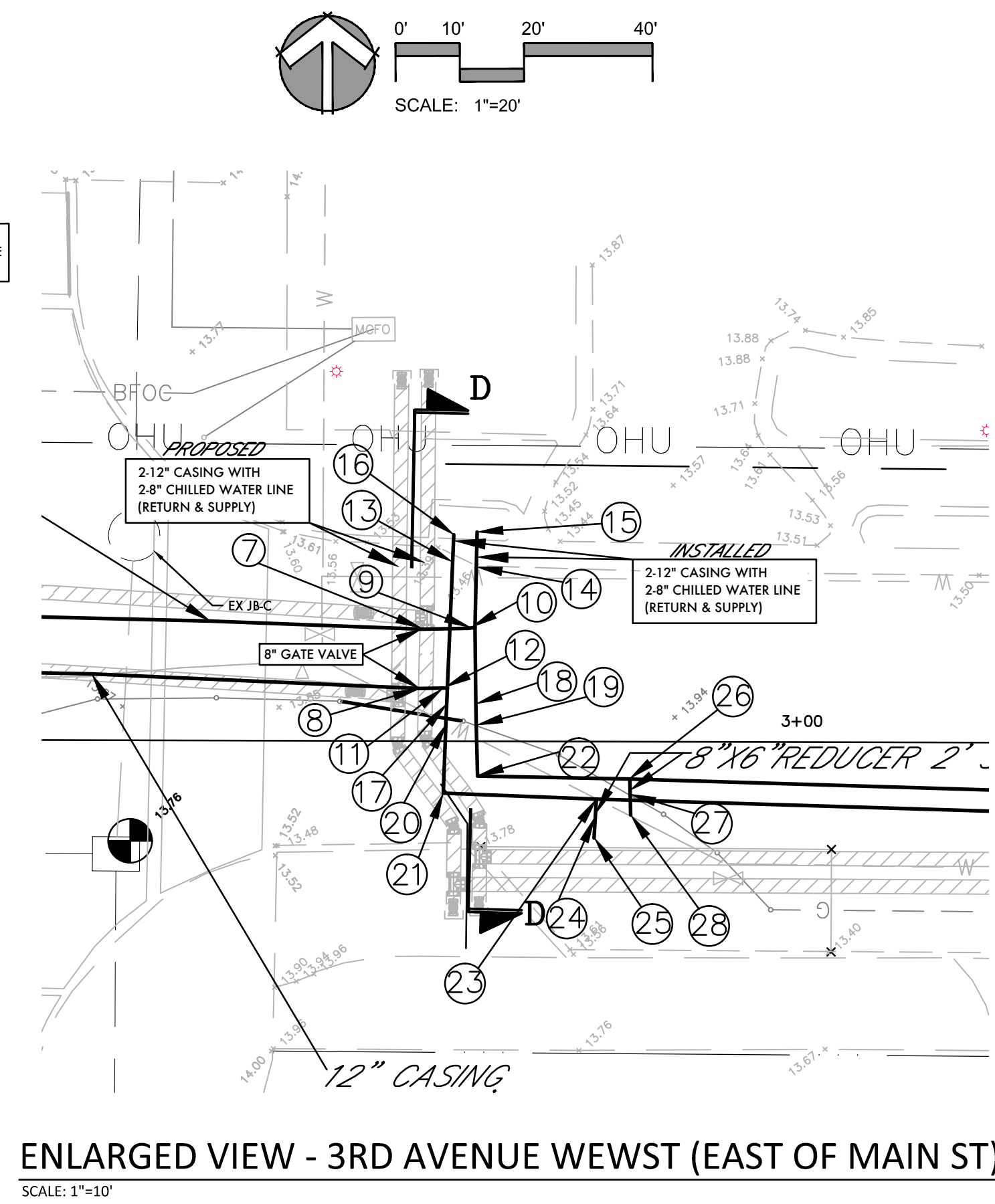
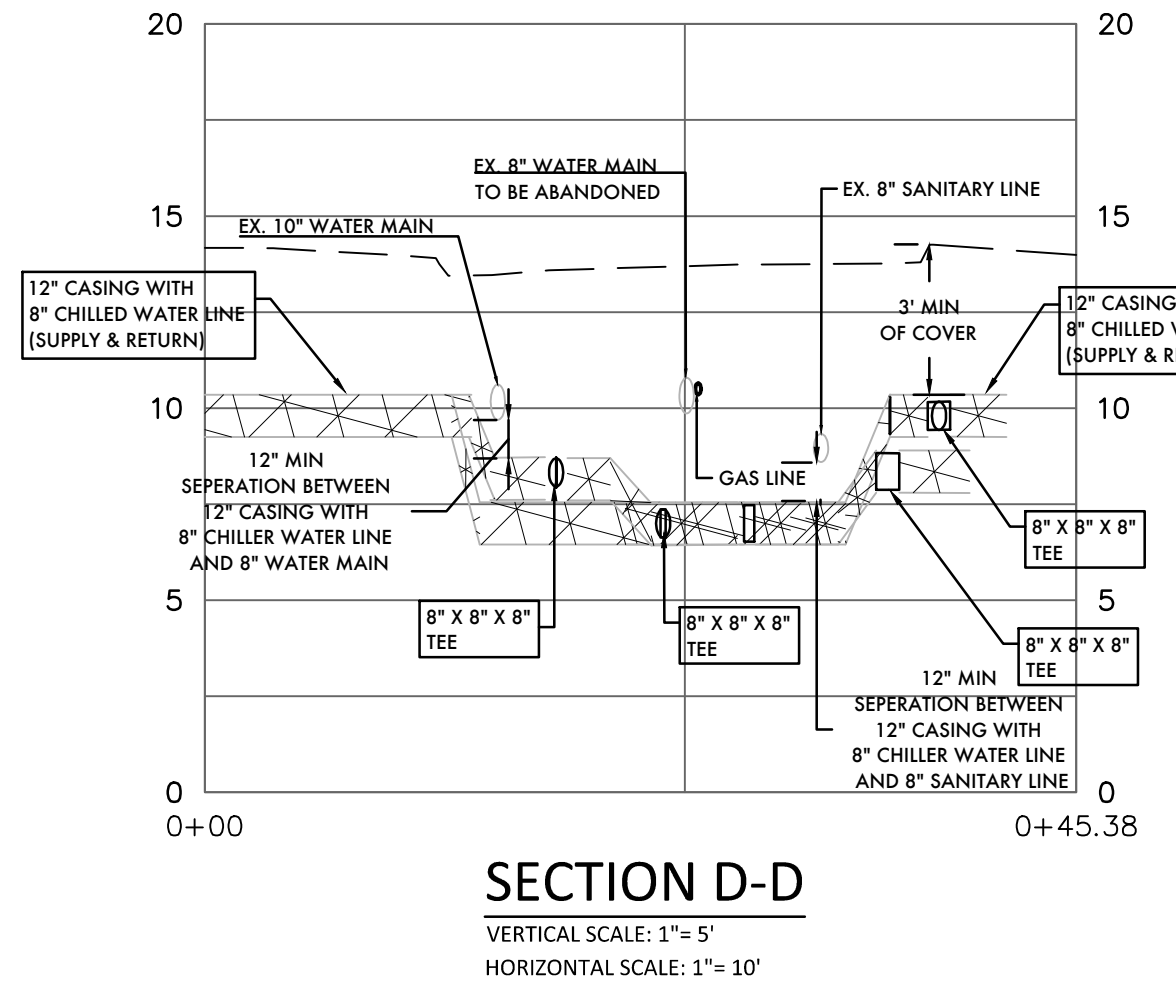
**SURVEYOR'S CERTIFICATE**  
I HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN, SUPERIMPOSED UPON THE DESIGN CONSTRUCTION PLANS ARE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, AND BASED ON OBSERVED IMPROVEMENTS, A TRUE AND CORRECT REPRESENTATION OF THE IMPROVEMENTS AS SHOWN.

ZNS ENGINEERING, L.C.  
BRADENTON, FLORIDA 34206  
P.O. BOX 8448  
DATE OF CERTIFICATION :04/03/2015

NATHAN J. KRAGT P.E. #69272

**RECORD DRAWING DATA TABLE**  
(T.O.P. = TOP OF PIPE ELEV., T.O.N. = TOP OF NUT ELEV.)

LINE	STATION	OFFSET	SIZE	DATE	BY	DESCRIPTION
1	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
2	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
3	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
4	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
5	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
6	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
7	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
8	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
9	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
10	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
11	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
12	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
13	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
14	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
15	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
16	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
17	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
18	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
19	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
20	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
21	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
22	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
23	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
24	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
25	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
26	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
27	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
28	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
29	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
30	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
31	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
32	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
33	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
34	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
35	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
36	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
37	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
38	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
39	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
40	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
41	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
42	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
43	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
44	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
45	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
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48	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
49	0+00	0.00	12"	08/11/11	MLC	2.12" CASING WITH 2.8" CHILLED WATER LINE (RETURN & SUPPLY)
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**LEGEND**

- PROPOSED CHILLER LINE
- PROPOSED CONDUIT
- PROPOSED OVER HEAD CHILLED WATER LINE
- PROPOSED OVER HEAD CONDUIT
- EXISTING SIDEWALK
- EXISTING ASPHALT PAVEMENT
- EX. WATER MAIN
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- EX. GAS MAIN
- EX. OVER HEAD ELECTRIC
- EX. MANATEE COUNTY FIBER OPTIC CABLE
- EX. VERIZON CABLE
- EROSION CONTROL DEVICE (SEE DETAIL SHEET)
- ASPHALT TO BE MILLED AND RESURFACED
- \*MILL 3/4" ASPHALT & RESURFACE WITH 3/4" TYPE S-1 ASPHALT. RESTORE STAMPED ASPHALT CROSSWALK IN ACCORDANCE WITH DETAIL. STRINGING TO BE RESTORED IN ITS ORIGINAL LOCATION.
- DIRECTIONAL DRILL PIT
- \*SAWCUT AND REMOVE SURFACE. RESTORE TO ORIGINAL CONDITION UPON COMPLETION. REPLACE ASPHALT IN 2 LIFTS TO ALLOW CONTINUOUS 3/4" ASPHALT RESURFACING.

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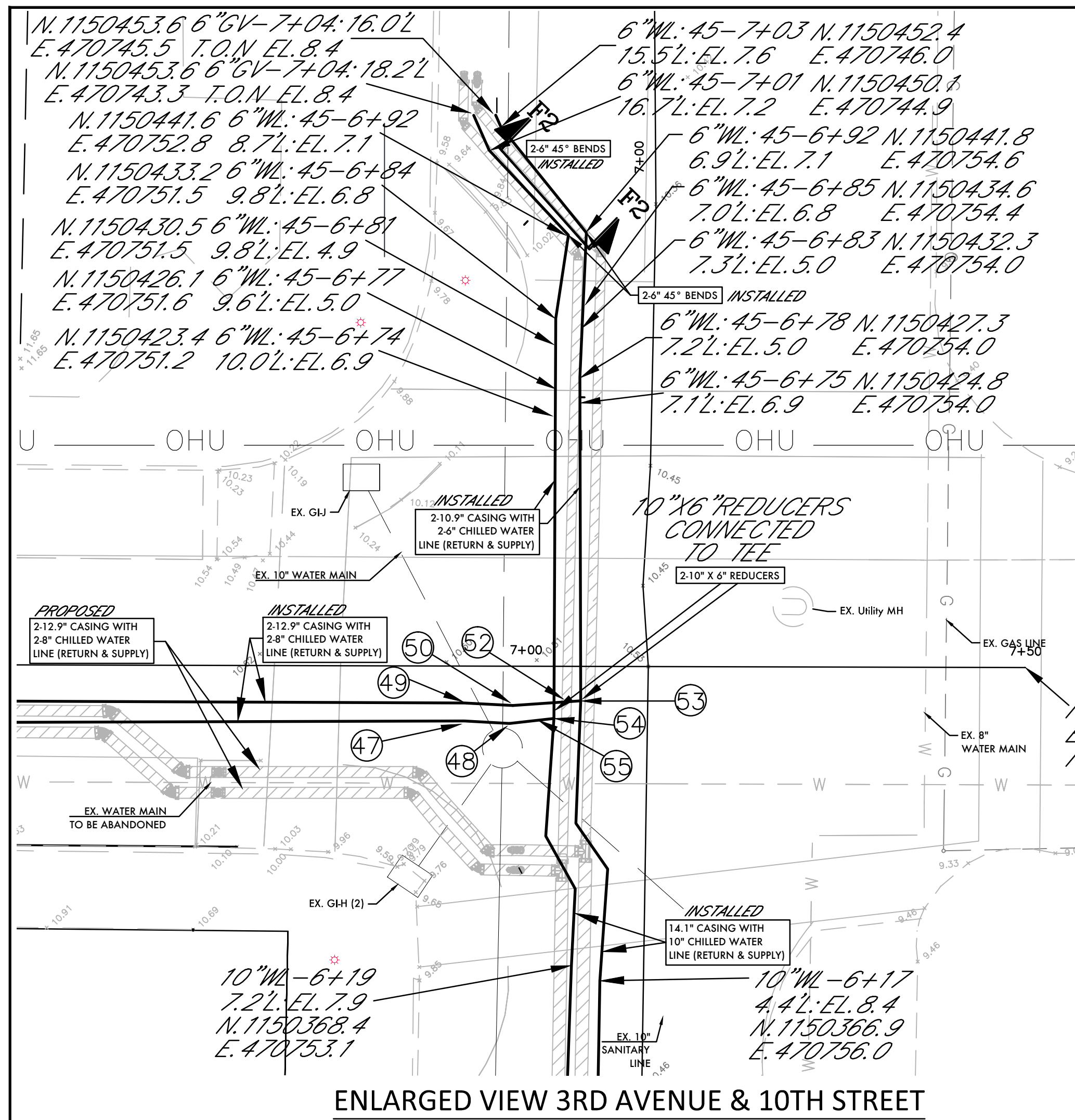
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**PREPARED BY**  
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 CA 002765 18 000992 IC 000065

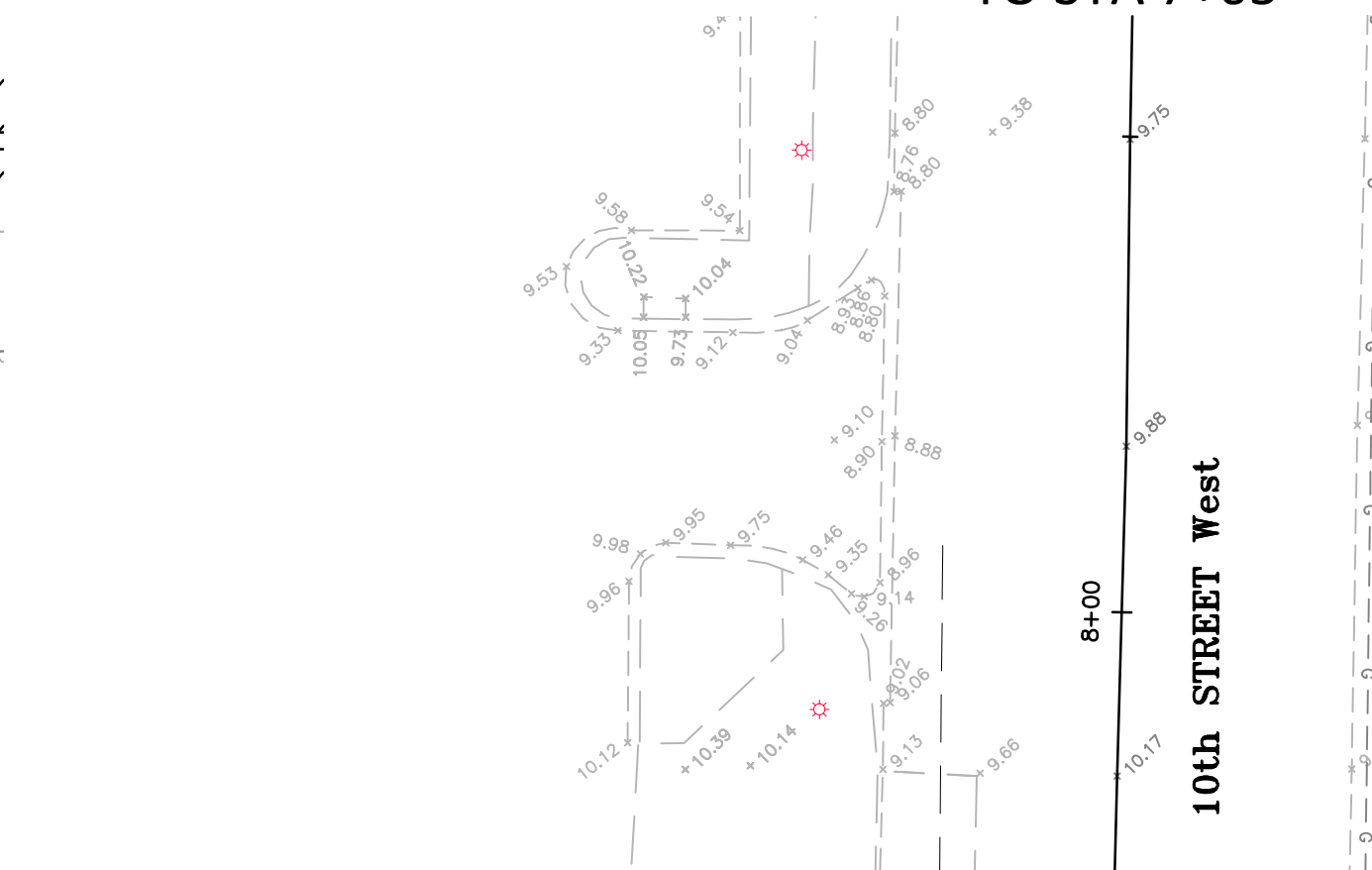


ENLARGED VIEW 3RD AVENUE & 10TH STREET

SCALE 1"=10'



TYPICAL SECTION FOR TRENCHING & PIPE LAYOUT : STA 3+70 TO STA 7+05



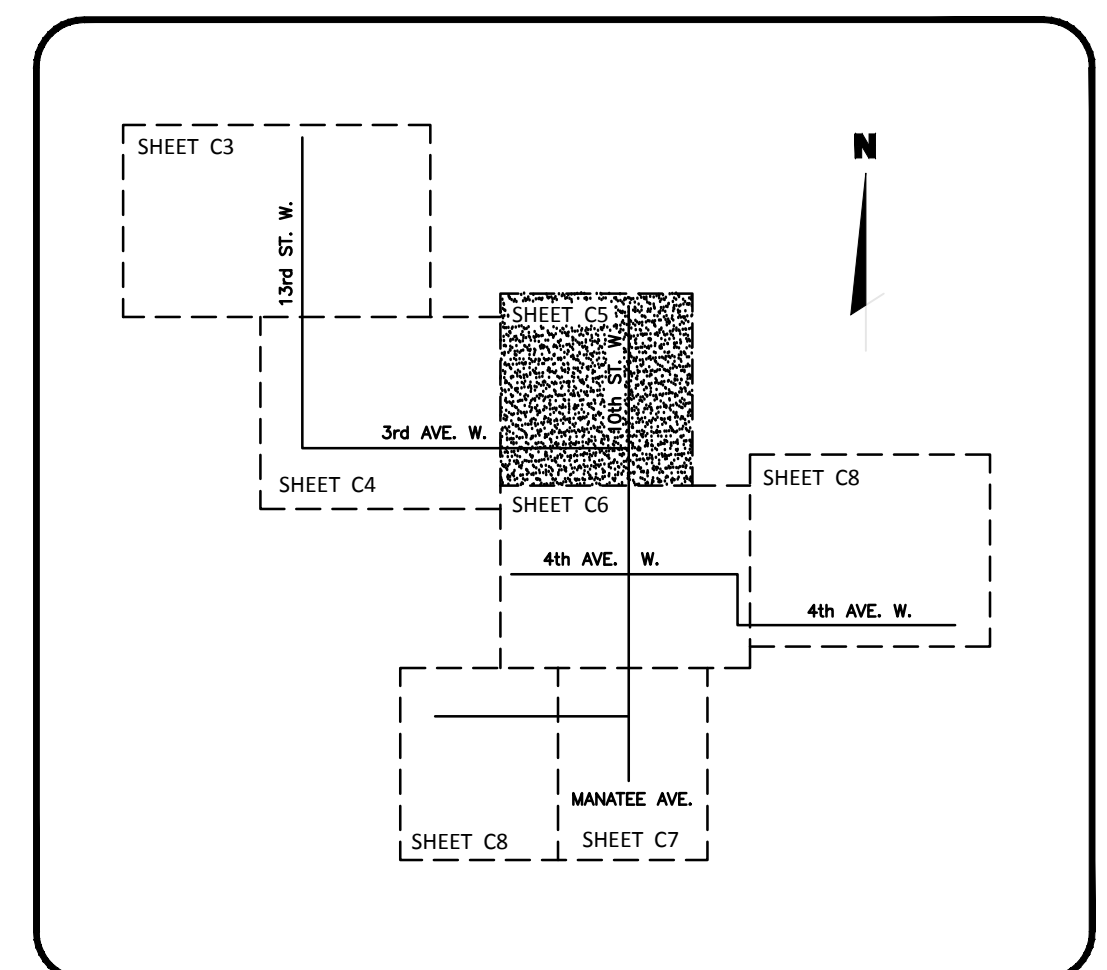
10th STREET West

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KEY MAP (NOT TO SCALE)

LEGEND

- PROPOSED CHILLER LINE
- PROPOSED CONDUIT
- PROPOSED OVER HEAD CHILLED WATER LINE
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- EXISTING SIDEWALK
- EXISTING ASPHALT PAVEMENT
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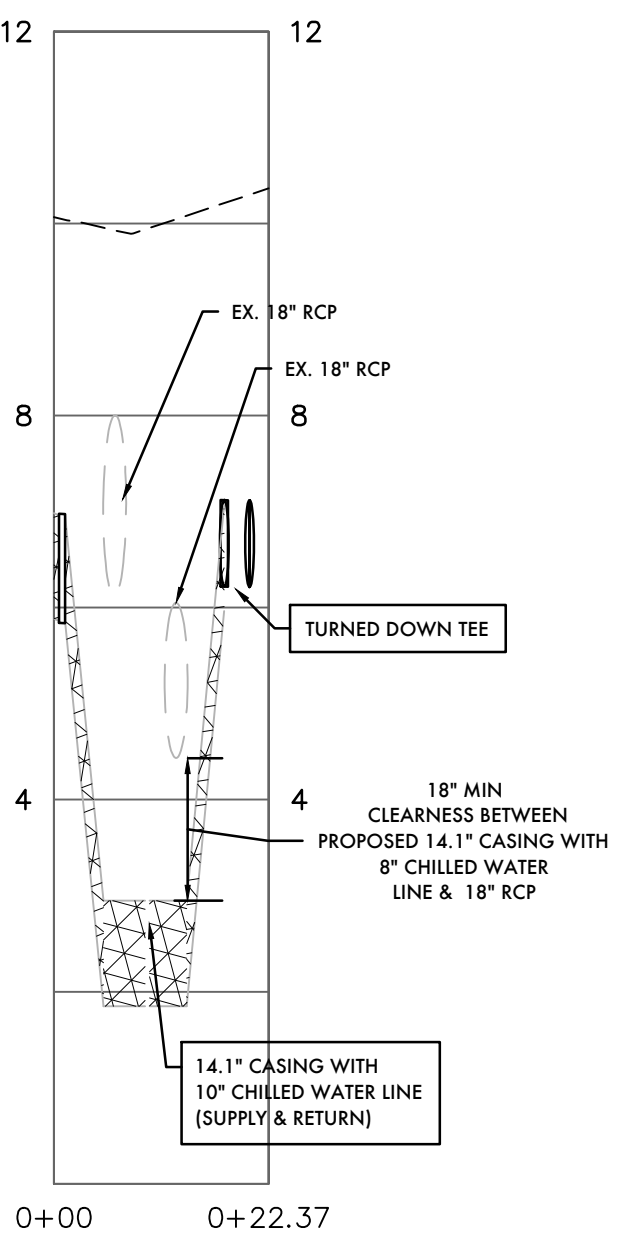
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14. CONTRACTOR TO KEEP BORE LOG DURING DIRECTIONAL DRILLING OPERATIONS. PIPE DEPTH AND STATION/OFF-SET SHALL BE RECORDED EVERY 50' ON RECORD DRAWINGS IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS.
15. ALL UTILITIES AND CORRESPONDING STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS AND SPECIFICATIONS.

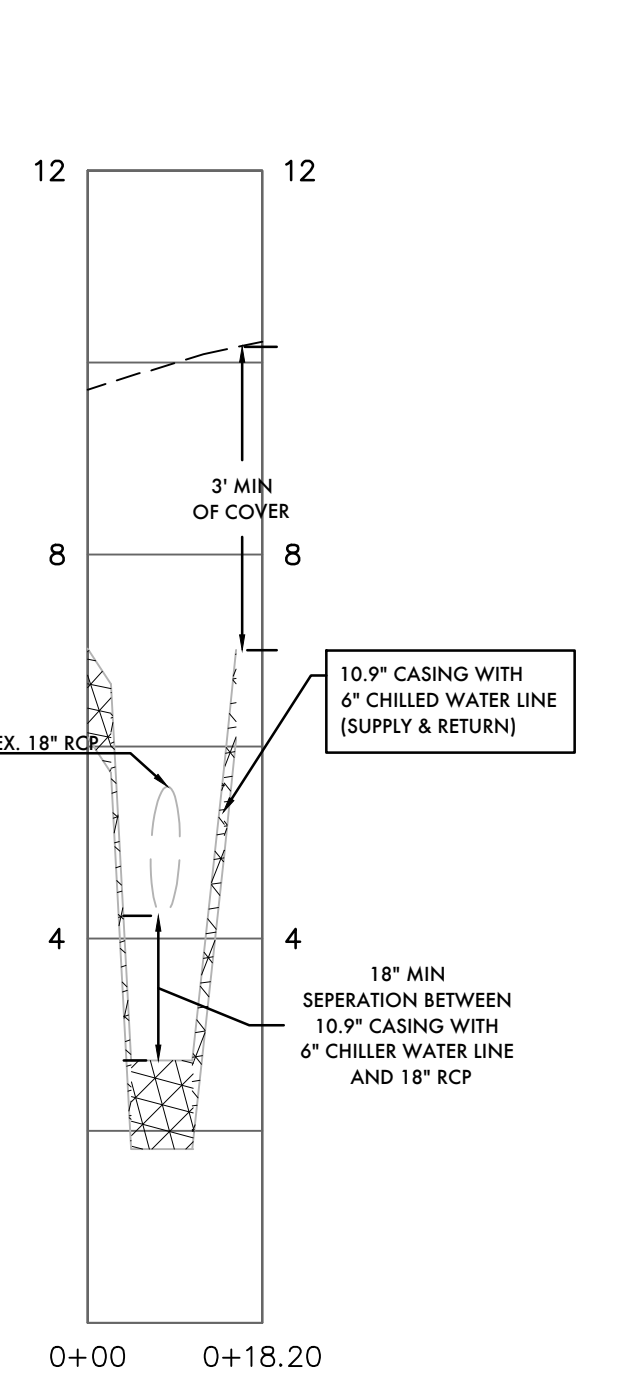
SECTION F1-F1

VERTICAL SCALE: 1"=2'  
 HORIZONTAL SCALE 1"=20'

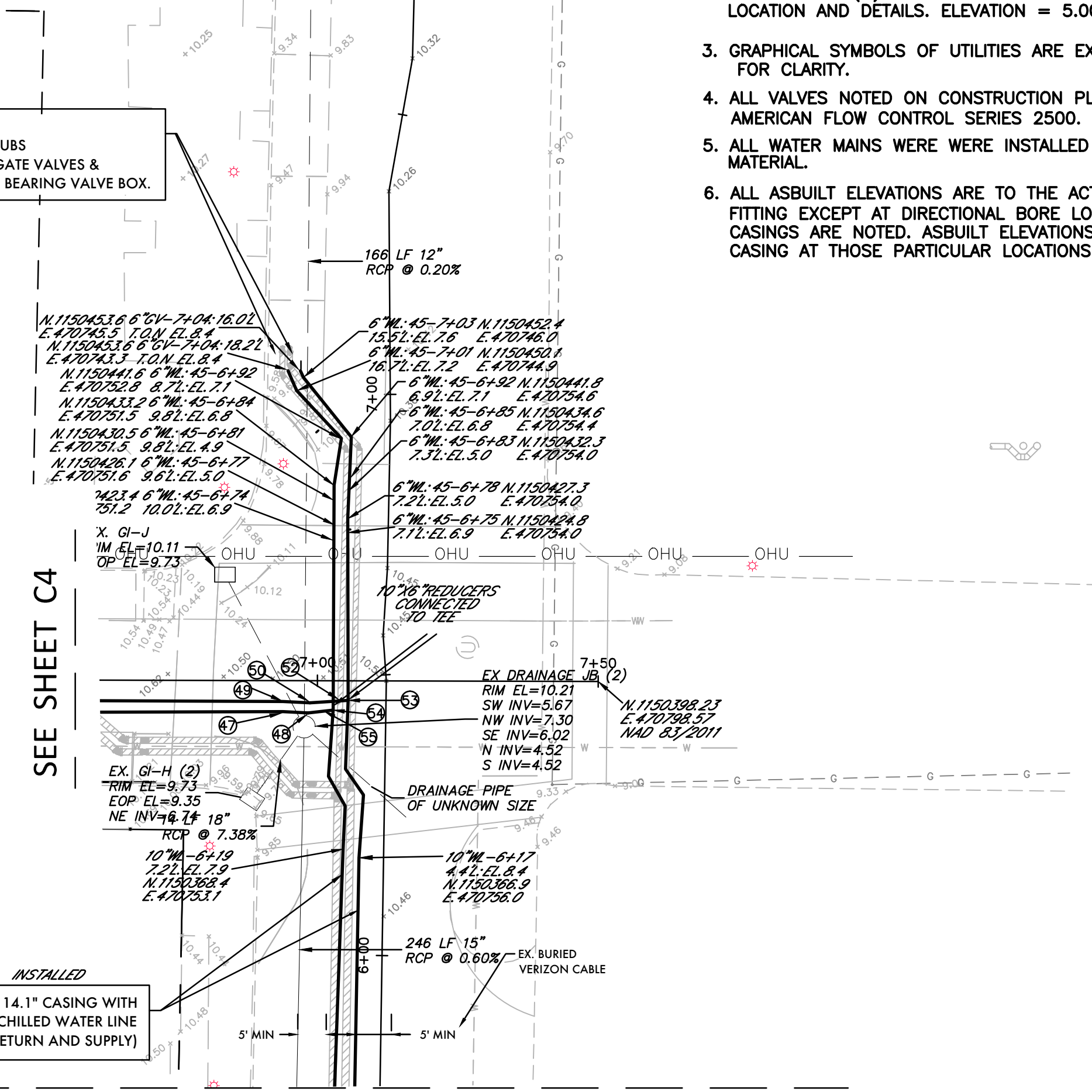


SECTION F2-F2

VERTICAL SCALE: 1"=2'  
 HORIZONTAL SCALE 1"=20'



2.10.9" CASING WITH 2.6" CHILLED WATER LINE STUBS (RETURN & SUPPLY) WITH 6" GATE VALVES & CAPS. PLACE WITHIN TRAFFIC BEARING VALVE BOX.



SEE SHEET C6

PREPARED BY  
**ZNS ENGINEERING**  
 ENGINEERS | PLANNERS | SURVEYORS | LANDSCAPE ARCHITECTS  
 CA 002767 18 000692 IC 000363  
 201 5th AVENUE DRIVE EAST BRADENTON, FL 34208  
 E-MAIL: ZNS@ZNSENGINEERING.COM | TELEPHONE: 941.748.8080 | FAX: 941.748.3316

**FPL Services, LLC**  
 Development & Construction  
 8001 VILLAGE BLVD., SUITE 100  
 TAMPA, FL 33634  
 TEL: 305.552.4853  
 FAX: 305.899.2272  
 www.fpls.com

**MANATEE COUNTY GOVERNMENT**  
 DISTRICT COOLING PLANT  
 323 9TH STREET WEST  
 BRADENTON, FLORIDA 34205

FUNCTION	BY	DATE
DESIGNED:	MLC	04/01/15
CHECKED:	MF	07/21/14
REVISIONS	BY	DATE

DAC PROJECT NUMBER  
 4542-94-000-300-897

CIVIL PLAN

SHEET NUMBER  
**C5**



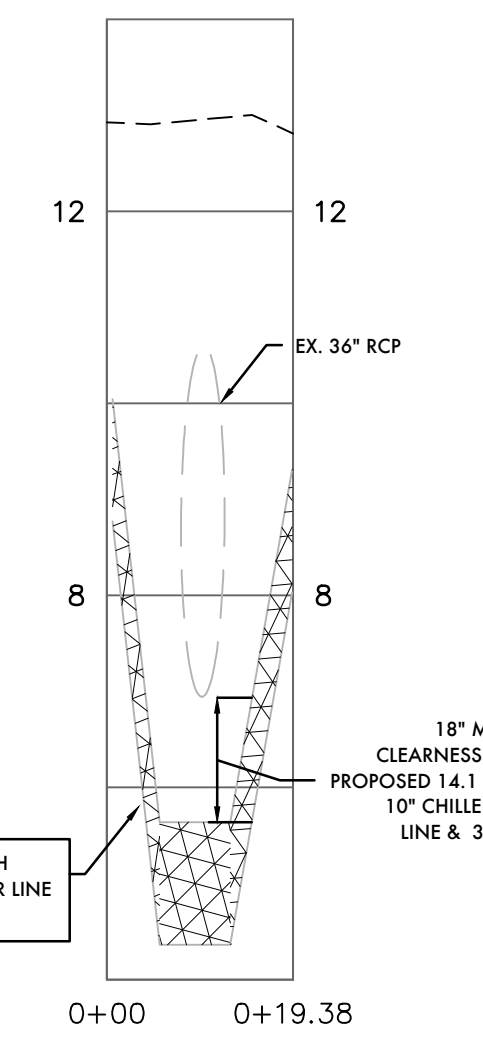
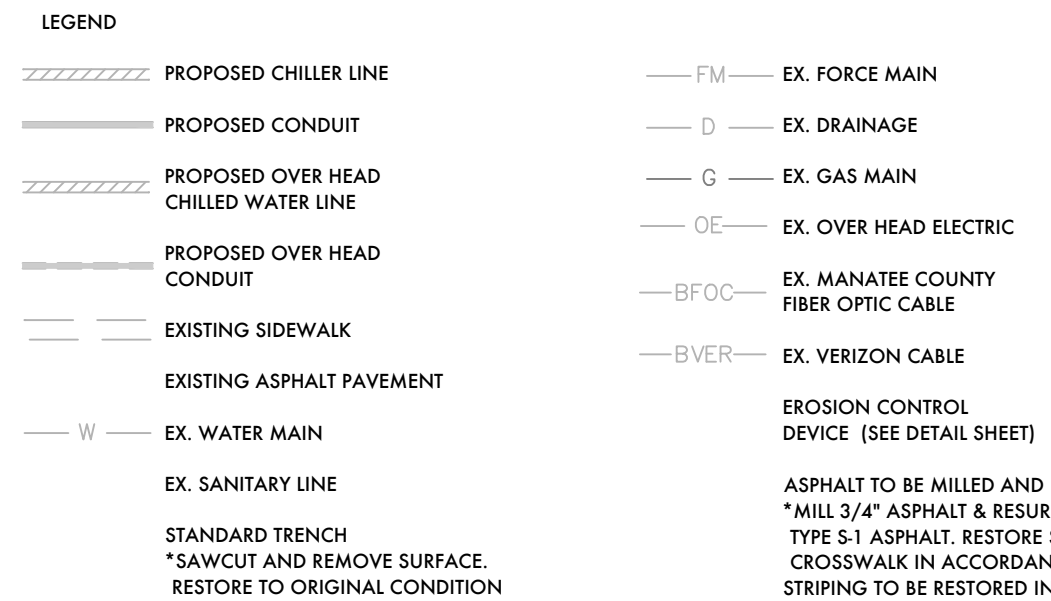
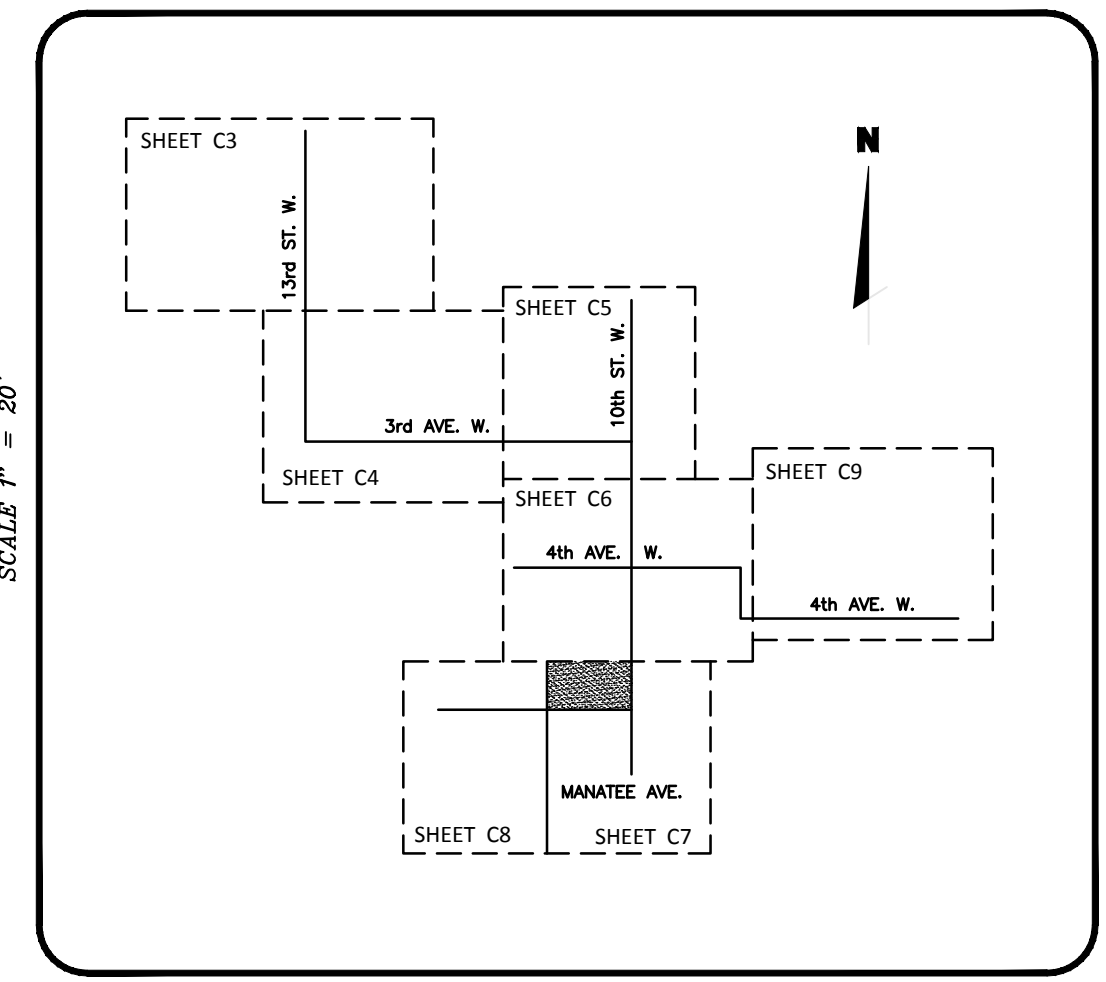
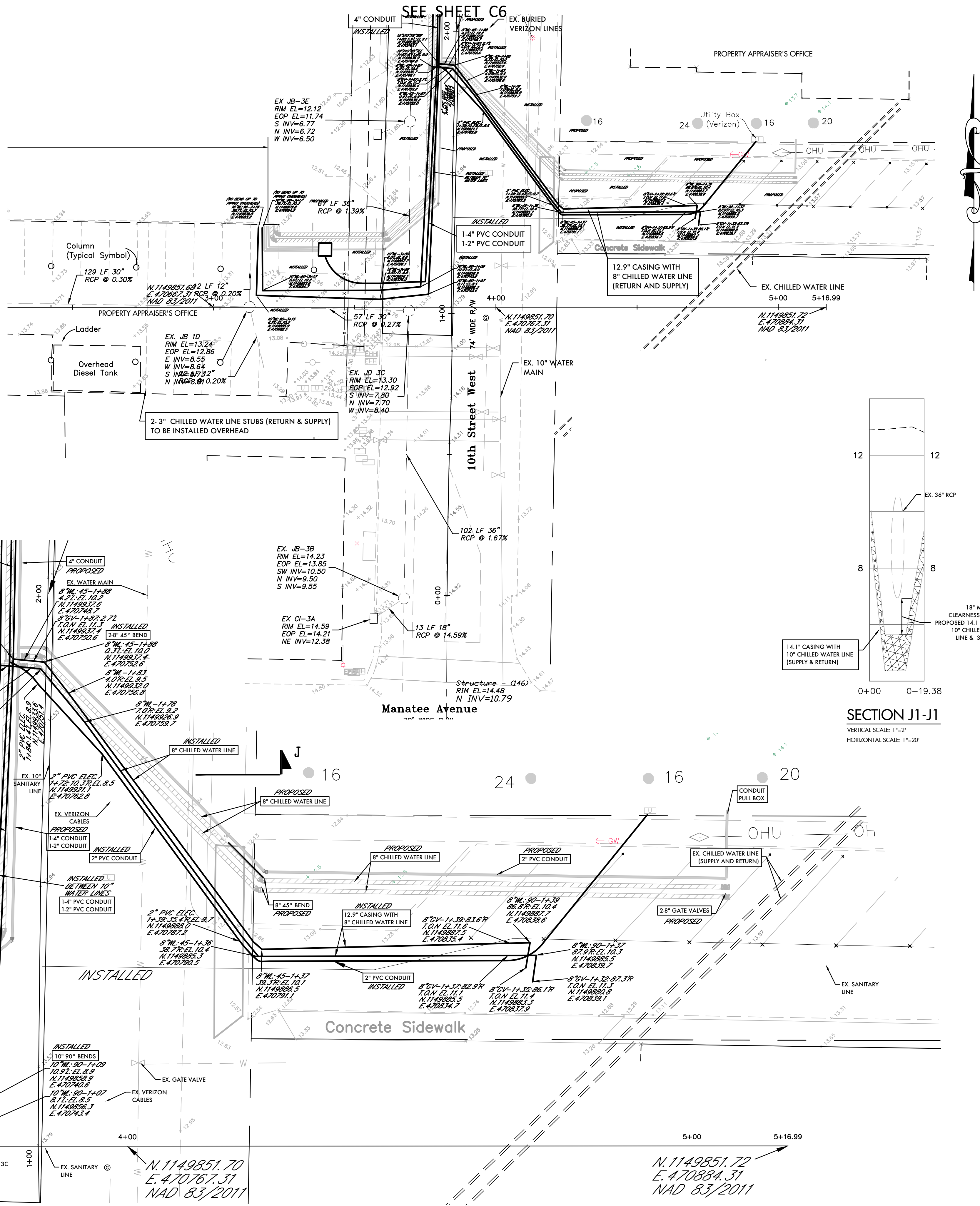


ACRONYM LEGEND:  
 L - LEFT  
 R - RIGHT  
 EL - ELEVATION  
 WL - WATER LINE  
 GV - GATE VALVE  
 T.O.N. - TOP OF NUT  
 45 - 45° BEND  
 90 - 90° BEND  
 RED. - REDUCER

RECORD DRAWING NOTES:

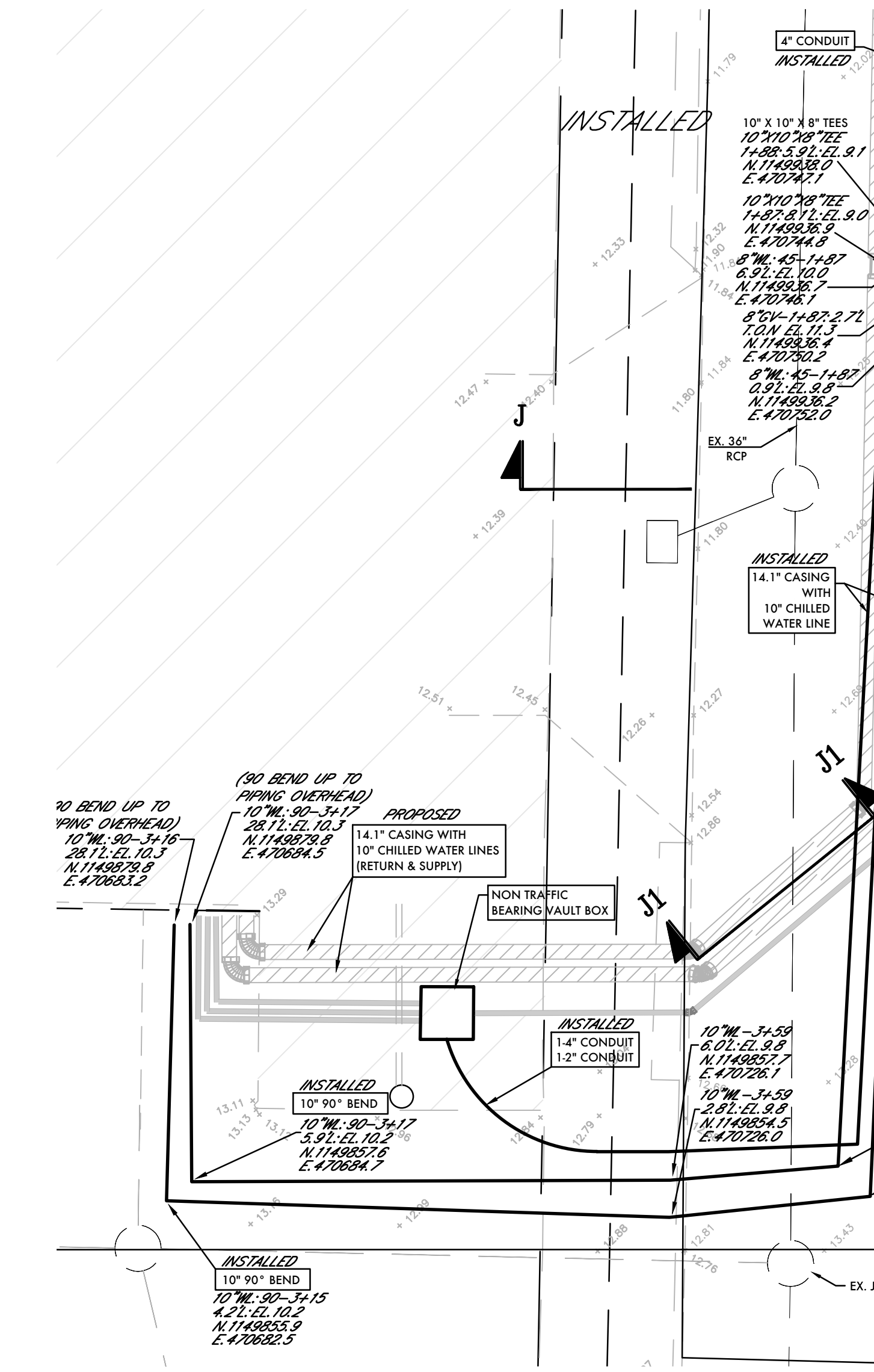
- ALL RECORD DRAWING INFORMATION SHOWN IN ITALICS.
- ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM. MANATEE COUNTY BENCHMARK Pld # DL1768 LOCATED AT N.1150998.08 E.469907.05 NAD 1983/2011 AND 27 29 56.7 (N) LAT. 082 34 28.5 (W) LONG. SEE SHEET C3 FOR PLAN VIEW LOCATION AND DETAILS. ELEVATION = 5.00.
- GRAPHICAL SYMBOLS OF UTILITIES ARE EXAGGERATED FOR CLARITY.
- ALL VALVES NOTED ON CONSTRUCTION PLANS ARE AMERICAN FLOW CONTROL SERIES 2500.
- ALL WATER MAINS WERE INSTALLED WITH (HDPE) SDR 11 MATERIAL.
- ALL ASBUILT ELEVATIONS ARE TO THE ACTUAL TOP OF PIPE OR FITTING EXCEPT AT DIRECTIONAL BORE LOCATIONS WHERE CASINGS ARE NOTED. ASBUILT ELEVATIONS ARE TO THE TOP OF CASING AT THOSE PARTICULAR LOCATIONS.

SEE SHEET C8



SECTION J1-J1  
 VERTICAL SCALE: 1"=2'  
 HORIZONTAL SCALE: 1"=20'

- NOTES**
- ALL EXISTING UTILITIES SHOWN WERE LOCATED USING BEST AVAILABLE RESOURCES. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS.
  - CONTRACTOR TO COORDINATE PARKING LOT AND DRIVEWAY CLOSURES WITH MANATEE COUNTY AND/OR PROPERTY OWNER.
  - ALL LANE CLOSURE/MAINTENANCE OF TRAFFIC SHALL FOLLOW FOOT MAINTENANCE OF TRAFFIC STANDARDS.
  - ALL ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM.
  - CONTRACTOR TO STABILIZE ALL EXISTING STRUCTURES AND PIPES PER CITY OF BRADENTON PUBLIC WORK STANDARD.
  - CONTRACTOR TO PERFORM SUBSURFACE UTILITY LOCATES ON ALL APPLICABLE CROSSING UTILITIES PRIOR TO THE START OF DIRECTIONAL DRILLING.
  - ANY AND ALL FIELD ADJUSTMENTS MUST BE REVIEWED AND APPROVED BY CITY OF BRADENTON INSPECTOR.
  - CHILLED WATER LINES WILL BE MAINTAINED BY MANATEE COUNTY.
  - CONTRACTOR TO INSTALL TRACING WIRE OVER ALL INSTALLED PIPES IN ACCORDANCE WITH CITY OF BRADENTON DETAILS AND STANDARDS.
  - WORKING HOURS ARE FROM 7:00 A.M. TO 6:00 P.M. ALL ROADS SHALL BE LEFT DRIVEABLE AT THE END OF EACH DAY. BASE COURSE SHALL BE PLACED UP TO GRADE.
  - MACHINERY AND EQUIPMENT SHALL BE STORED AT THE END OF EACH WORKING DAY.
  - ALL ROADWAY OPENINGS/PITS LEFT OPEN DURING FULL ROADWAY CLOSURES SHALL BE FENCED AND MARKED WITH FLASHING LIGHTS AT THE END OF EACH DAY.
  - CONTRACTOR IS RESPONSIBLE FOR PROVIDING GEOTECHNICAL TESTING RESULTS FOR ALL ROADWAY COMPACT AND PAVING. TESTING SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS.
  - CONTRACTOR TO KEEP BORE LOG DURING DIRECTIONAL DRILLING OPERATIONS. PIPE DEPTH AND STATION/OFF-SET SHALL BE RECORDED EVERY 50' ON RECORD DRAWINGS IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS.
  - ALL UTILITIES AND CORRESPONDING STRUCTURES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF BRADENTON STANDARDS AND SPECIFICATIONS.



ENLARGED VIEW  
 SCALE: 1"=10'

PREPARED BY  
**ZNS ENGINEERING**  
 ENGINEERS | PLANNERS | SURVEYORS | LANDSCAPE ARCHITECTS  
 201 56 AVENUE DRIVE EAST BRADENTON, FL 34208  
 EMAIL: ZNS@ZNSENGINEERING.COM | TELEPHONE: 941.748.8080 | FAX: 941.748.3316

**FPL Services, LLC**  
 Development & Construction  
 WEST PALM BEACH, FLORIDA 33407  
 PHONE: 561.852.4893  
 FAX: 561.852.2272

**MANATEE COUNTY GOVERNMENT**  
 DISTRICT COOLING PLANT  
 325 9TH STREET WEST

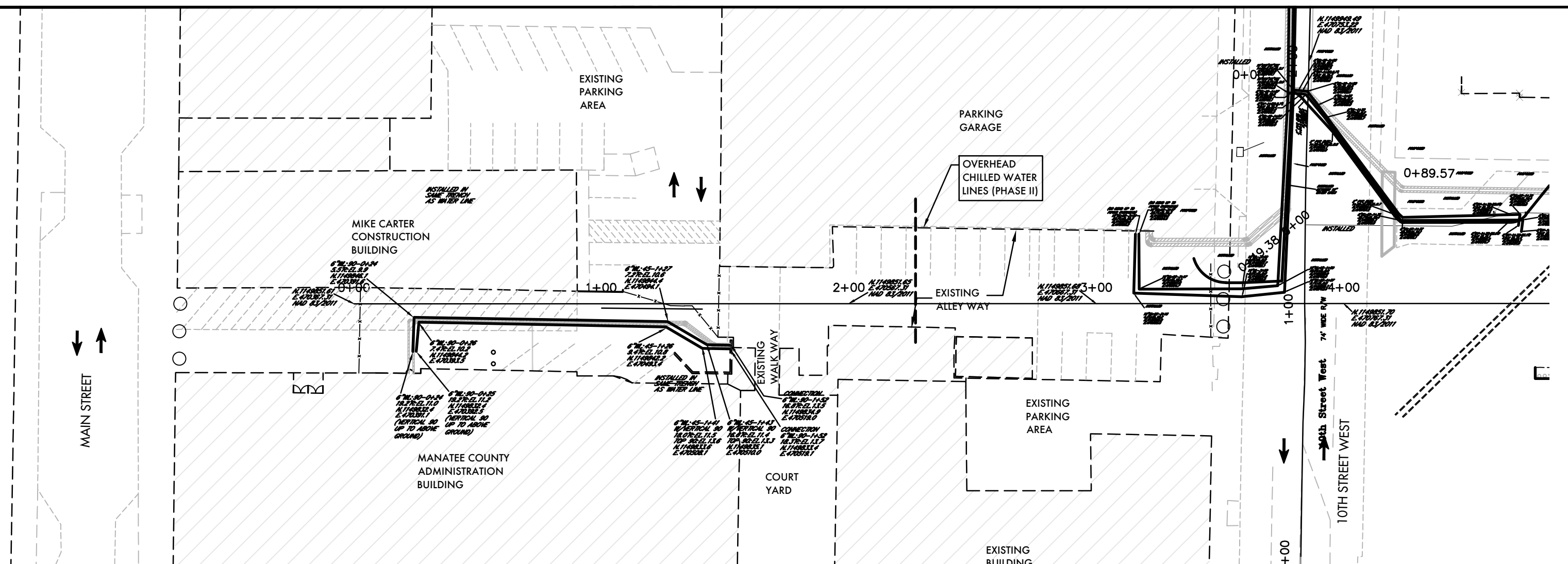
FUNCTION	BY	DATE
DESIGNED:	MLC	04/01/17
CHECKED:	MF	04/01/17
REVISIONS:	BY	DATE

DAC PROJECT NUMBER  
 4542-94-000-300-897

CIVIL PLAN

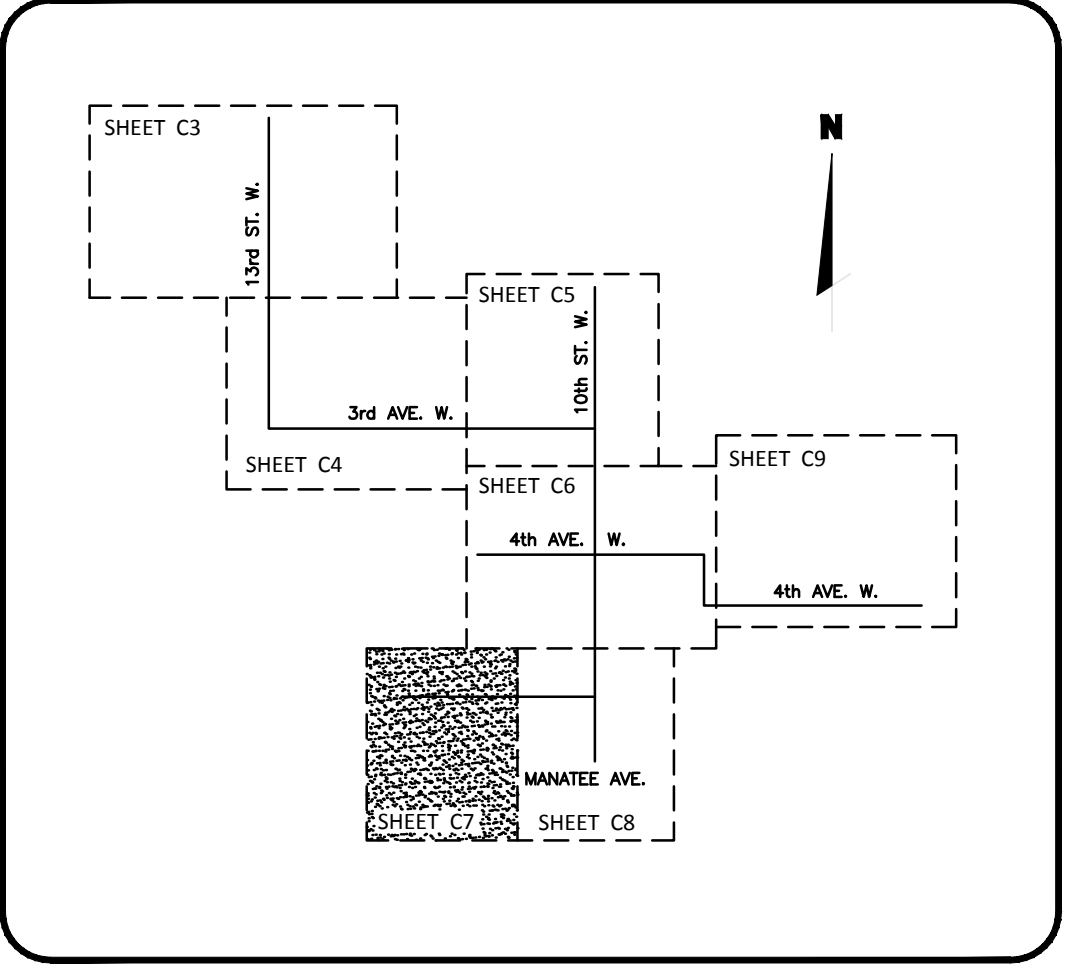
SHEET NUMBER  
**C7**

DATE OF FIELD WORK: 03/17/15  
 DATE OF CERTIFICATION: 04/03/15  
 J. N. Gotsch, Jr., P.E.  
 236 ENGINEERING, L.L.C.  
 300 BOWLING GREEN, SUITE 200  
 BRADENTON, FLORIDA 34208  
 DATE OF CERTIFICATION: 04/03/15  
 J. N. Gotsch, Jr., P.E.

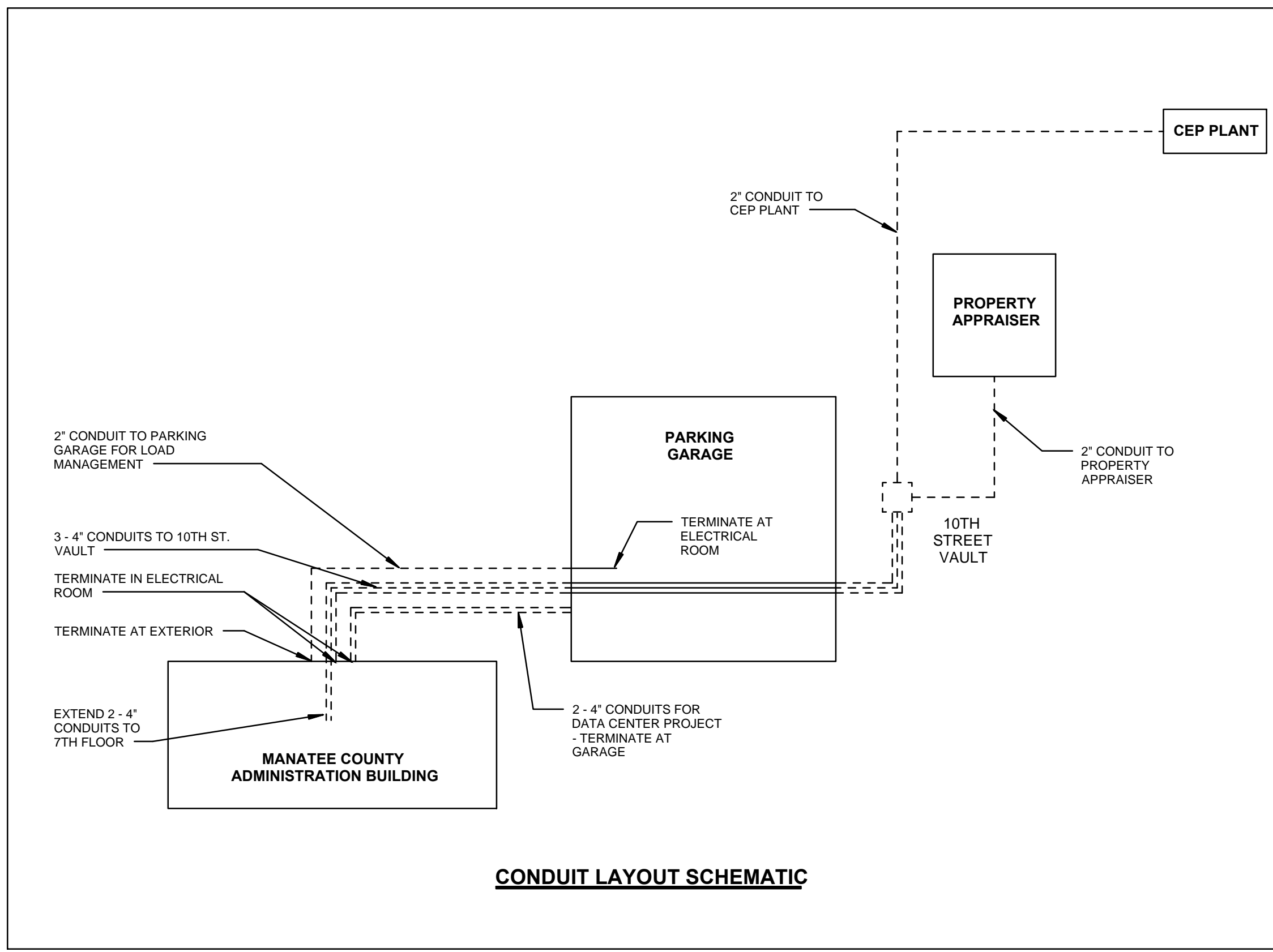
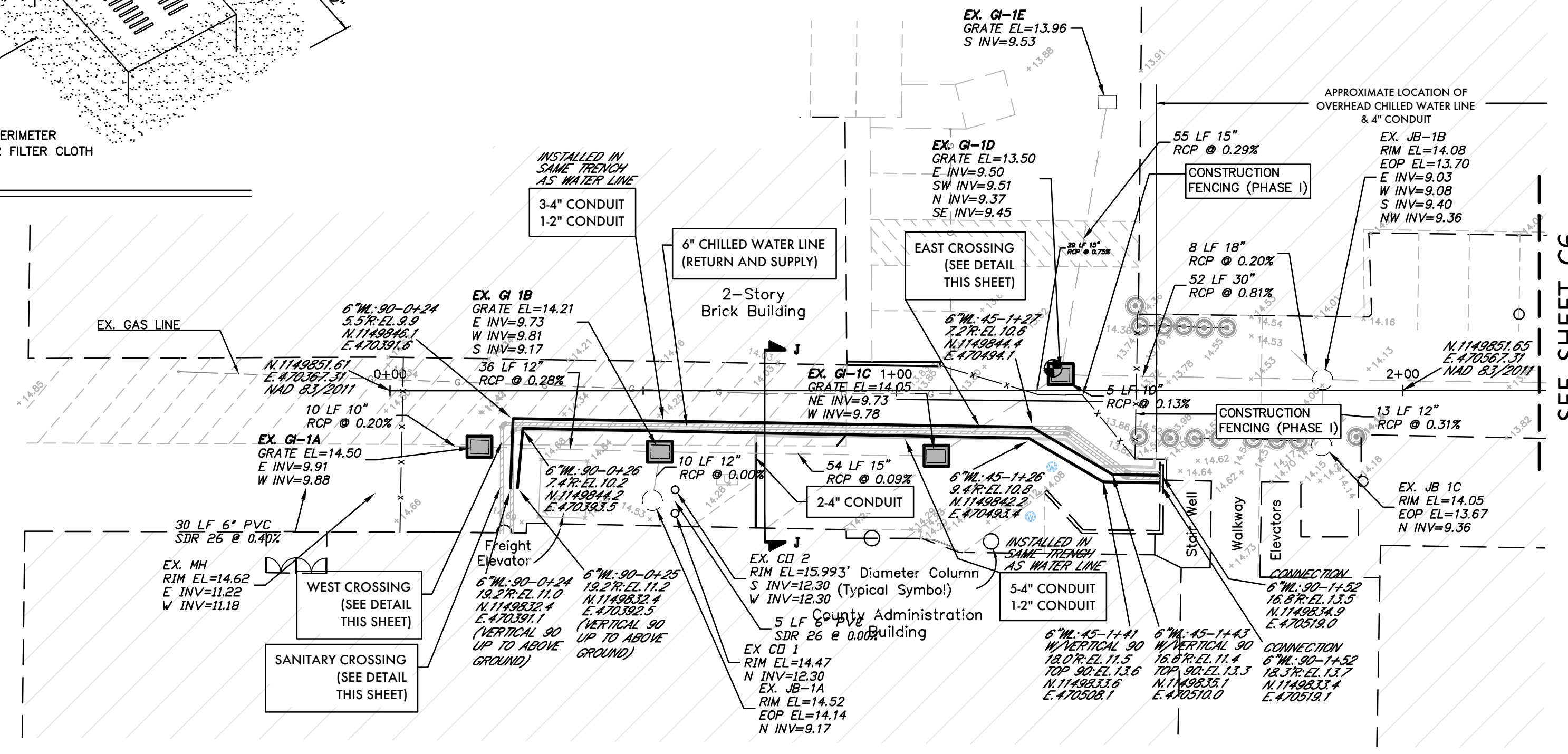
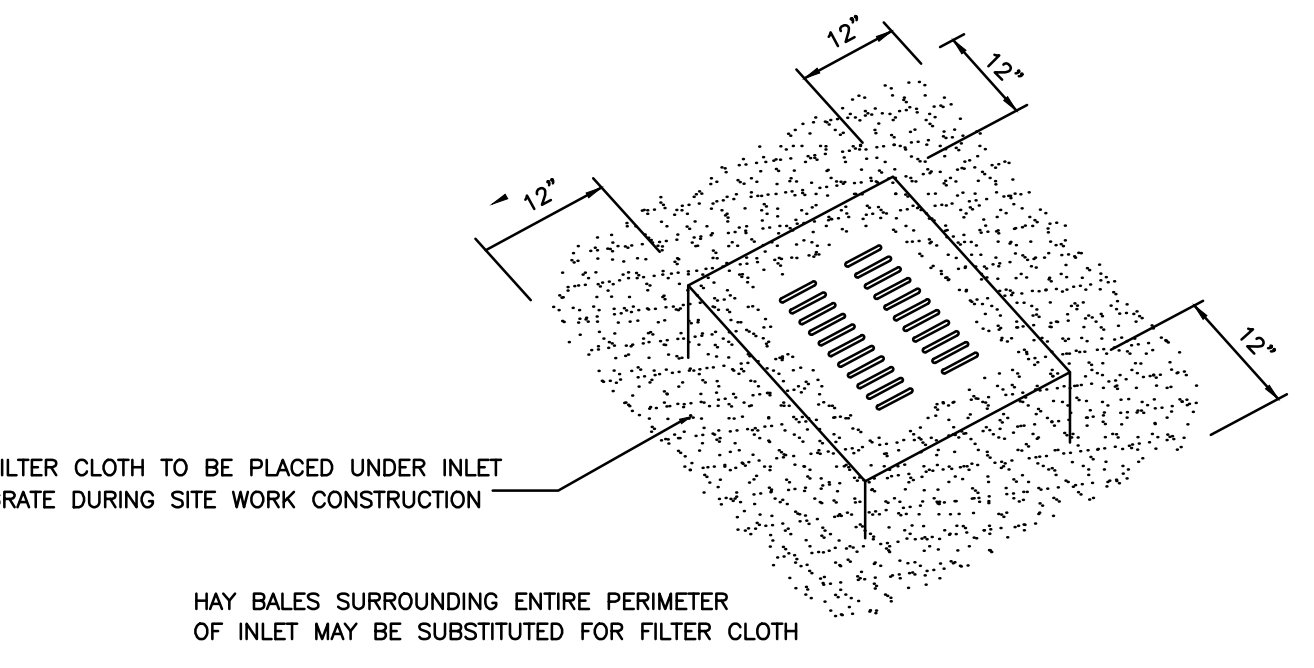


**MANATEE COUNTY ADMINISTRATION BUILDING ALLEY PHASING PLAN**  
SCALE = 1"=40'

- LEGEND**
- PROPOSED CHILLER LINE
  - PROPOSED CONDUIT
  - PROPOSED OVER HEAD CHILLED WATER LINE
  - PROPOSED OVER HEAD CONDUIT
  - EXISTING SIDEWALK
  - EXISTING ASPHALT PAVEMENT
  - EX. WATER MAIN
  - EX. SANITARY LINE
  - STANDARD TRENCH
  - \*SAWCUT AND REMOVE SURFACE. RESTORE TO ORIGINAL CONDITION UPON COMPLETION.
  - DIRECTIONAL DRILL PIT
  - \*SAWCUT AND REMOVE SURFACE. RESTORE TO ORIGINAL CONDITION UPON COMPLETION. REPLACE ASPHALT IN 2' LIFTS TO ALLOW CONTINUOUS 3/4" ASPHALT RESURFACING.
- FM — EX. FORCE MAIN  
 D — EX. DRAINAGE  
 G — EX. GAS MAIN  
 OE — EX. OVER HEAD ELECTRIC  
 BFCC — EX. MANATEE COUNTY FIBER OPTIC CABLE  
 BVER — EX. VERIZON CABLE  
 EROSION CONTROL DEVICE (SEE DETAIL SHEET)
- ASPHALT TO BE MILLED AND RESURFACED \*MILL 3/4" ASPHALT & RESURFACE WITH 3/4" TYPE S1 ASPHALT. RESTORE STAMPED ASPH CROSSWALK IN ACCORDANCE WITH DETA STRIPING TO BE RESTORED IN ITS ORIGINAL

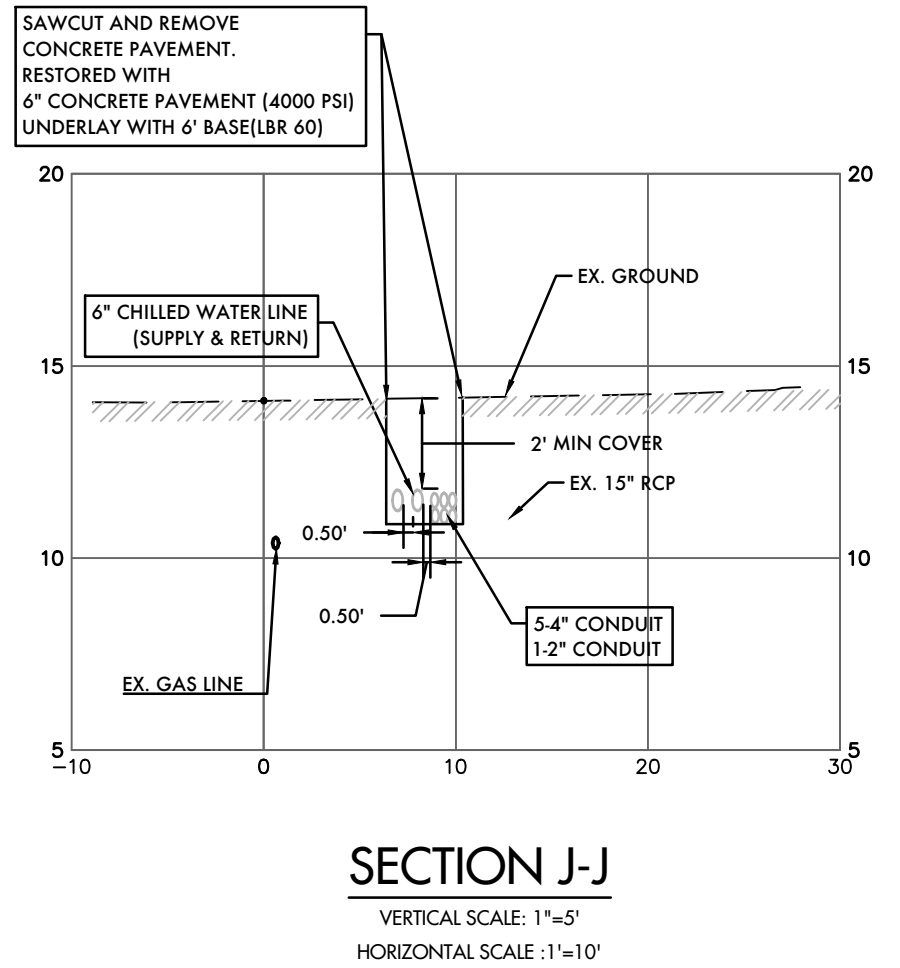
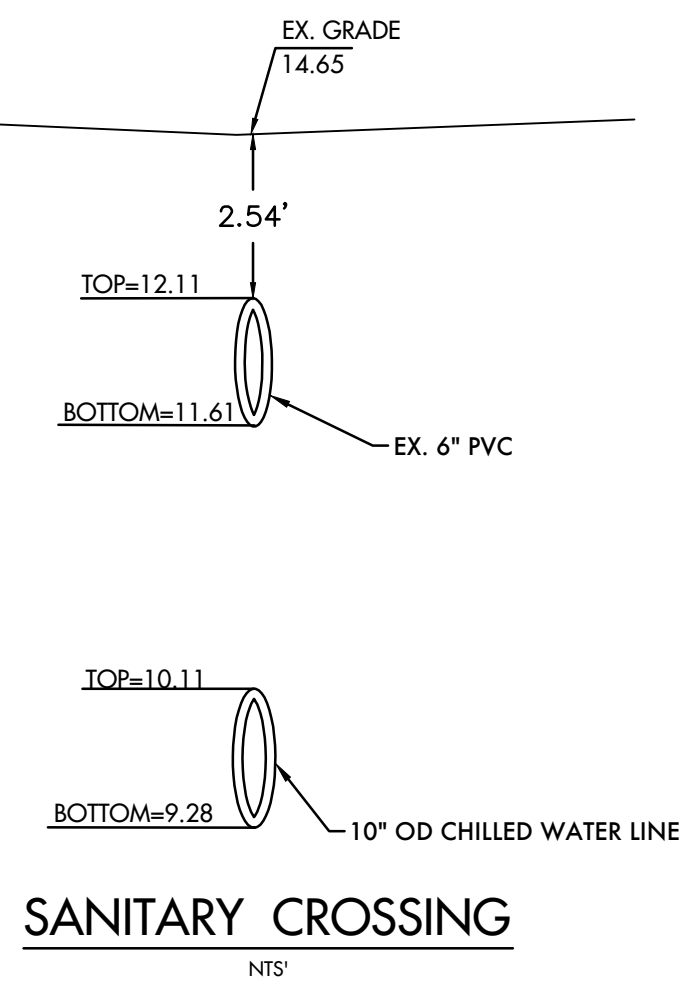
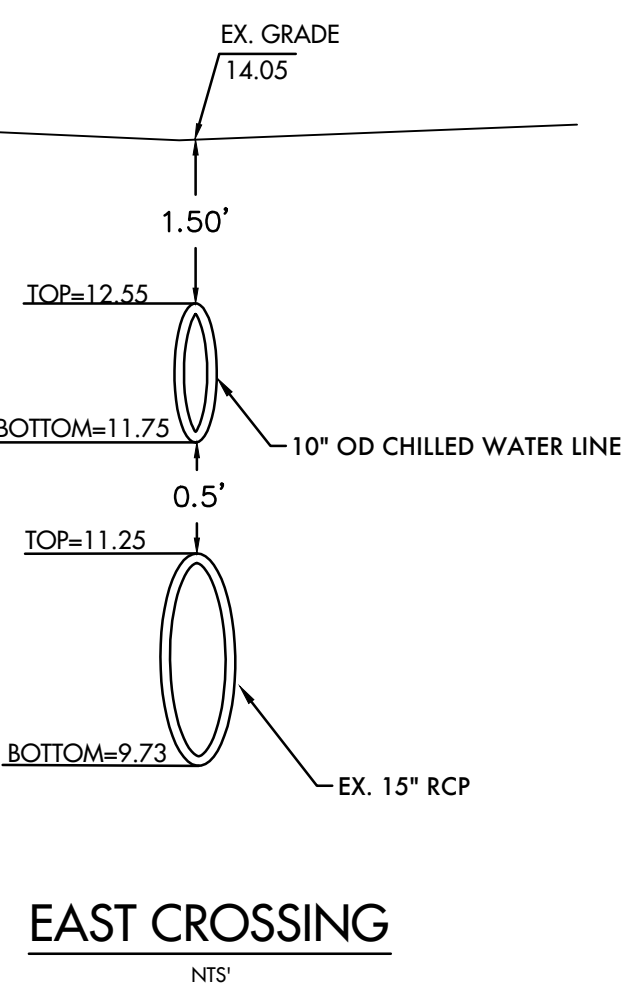
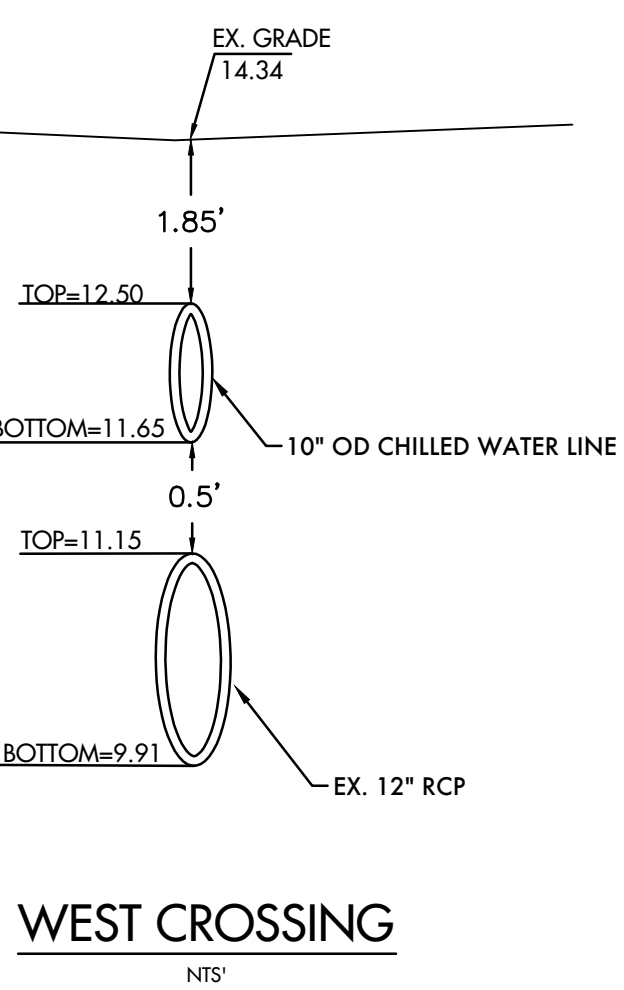


**KEY MAP**  
(NOT TO SCALE)



- ACRONYM LEGEND:**
- L - LEFT
  - R - RIGHT
  - EL. - ELEVATION
  - WL - WATER LINE
  - GV - GATE VALVE
  - T.O.N. - TOP OF NUT
  - 45 - 45° BEND
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  - RED. - REDUCER

- RECORD DRAWING NOTES:**
- ALL RECORD DRAWING INFORMATION SHOWN IN ITALICS.
  - ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM, MANATEE COUNTY BENCHMARK Pid # DL1768 LOCATED AT N.1150998.08 E.469907.05 NAD 1983/2011 AND 27 29 56.7 (N) LAT. 082 34 28.5 (W) LONG. SEE SHEET C3 FOR PLAN VIEW LOCATION AND DETAILS. ELEVATION = 5.00.
  - GRAPHICAL SYMBOLS OF UTILITIES ARE EXAGGERATED FOR CLARITY.
  - ALL VALVES NOTED ON CONSTRUCTION PLANS ARE AMERICAN FLOW CONTROL SERIES 2500.
  - ALL WATER MAINS WERE INSTALLED WITH (HDPE) SDR 11 MATERIAL.
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- NOTES**
- ALL EXISTING UTILITIES SHOWN WERE LOCATED USING BEST AVAILABLE RESOURCES. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS.
  - CONTRACTOR TO COORDINATE PARKING LOT AND DRIVEWAY CLOSURES WITH CITY OF BRADENTON PUBLIC WORKS.
  - ALL LANE CLOSURE/MAINTENANCE OF TRAFFIC SHALL FOLLOW FOOT MAINTENANCE OF TRAFFIC STANDARDS.
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**PREPARED BY**  
**ZNS ENGINEERING**  
ENGINEERS | PLANNERS | SURVEYORS | LANDSCAPE ARCHITECTS  
201 5th AVENUE DRIVE EAST BRADENTON, FL 34208  
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**FPL Services, LLC**  
Development & Construction  
6001 VILLAGE BLVD., SUITE 300  
BRADENTON, FLORIDA 34107  
TEL: 305.852.4893  
FAX: 305.852.2272  
WWW.FPL.COM

DATE OF FIELD WORK: 03/17/15  
DATE OF CERTIFICATION: 03/19/15  
MANITAN J. BRAGOT, P.E. #9272

ENGINEER'S CERTIFICATE  
I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN HEREON WERE LOCATED USING THE BEST AVAILABLE RESOURCES. I HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN HEREON WERE LOCATED USING THE BEST AVAILABLE RESOURCES. I HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN HEREON WERE LOCATED USING THE BEST AVAILABLE RESOURCES. I HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN HEREON WERE LOCATED USING THE BEST AVAILABLE RESOURCES.

**RECORD DRAWING OF CHILLED WATER LINES**  
MANATEE COUNTY GOVERNMENT  
DISTRICT COOLING PLANT  
323 9TH STREET WEST  
BRADENTON, FLORIDA 34205

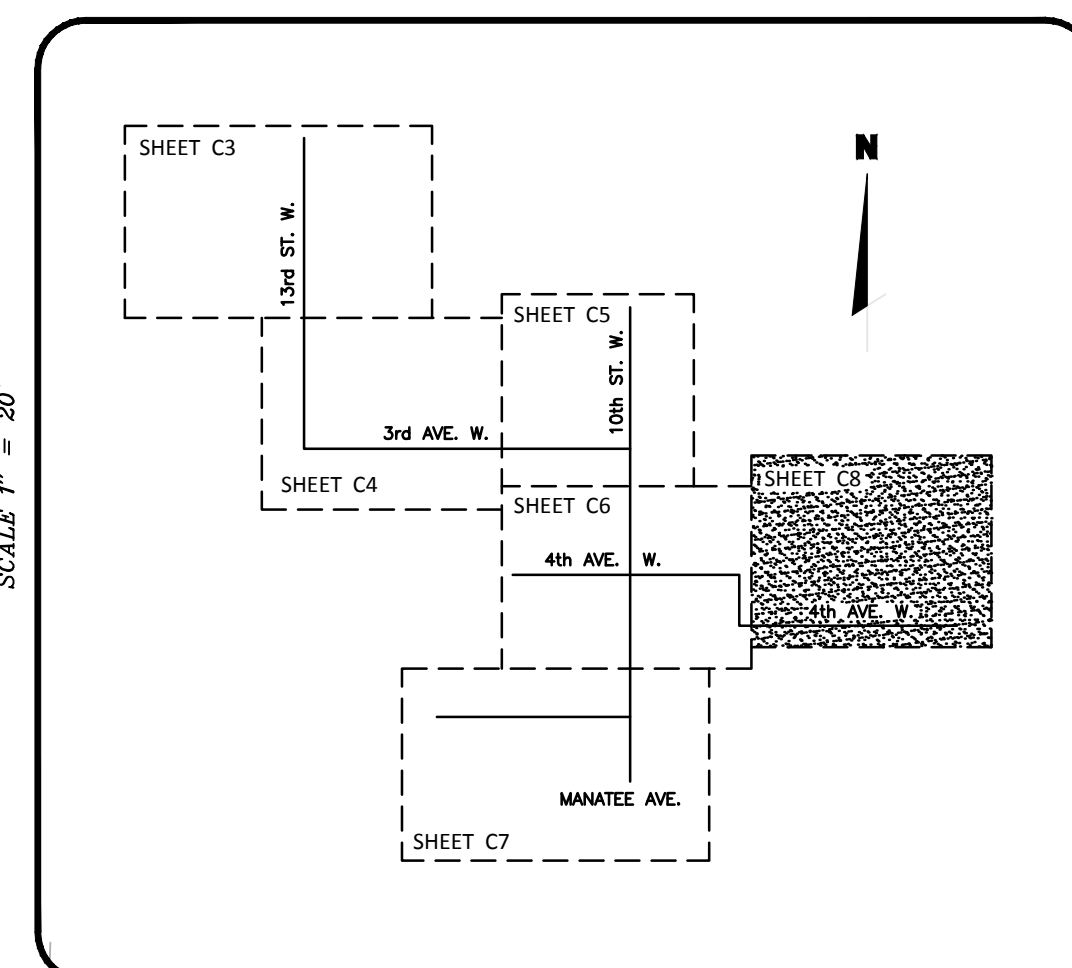
FUNCTION	BY	DATE
DESIGNED:	MLC	04/01/15
CHECKED:	MF	07/21/14
REVISIONS	BY	DATE

DAC PROJECT NUMBER  
4542-94-000-300-897

CIVIL PLAN

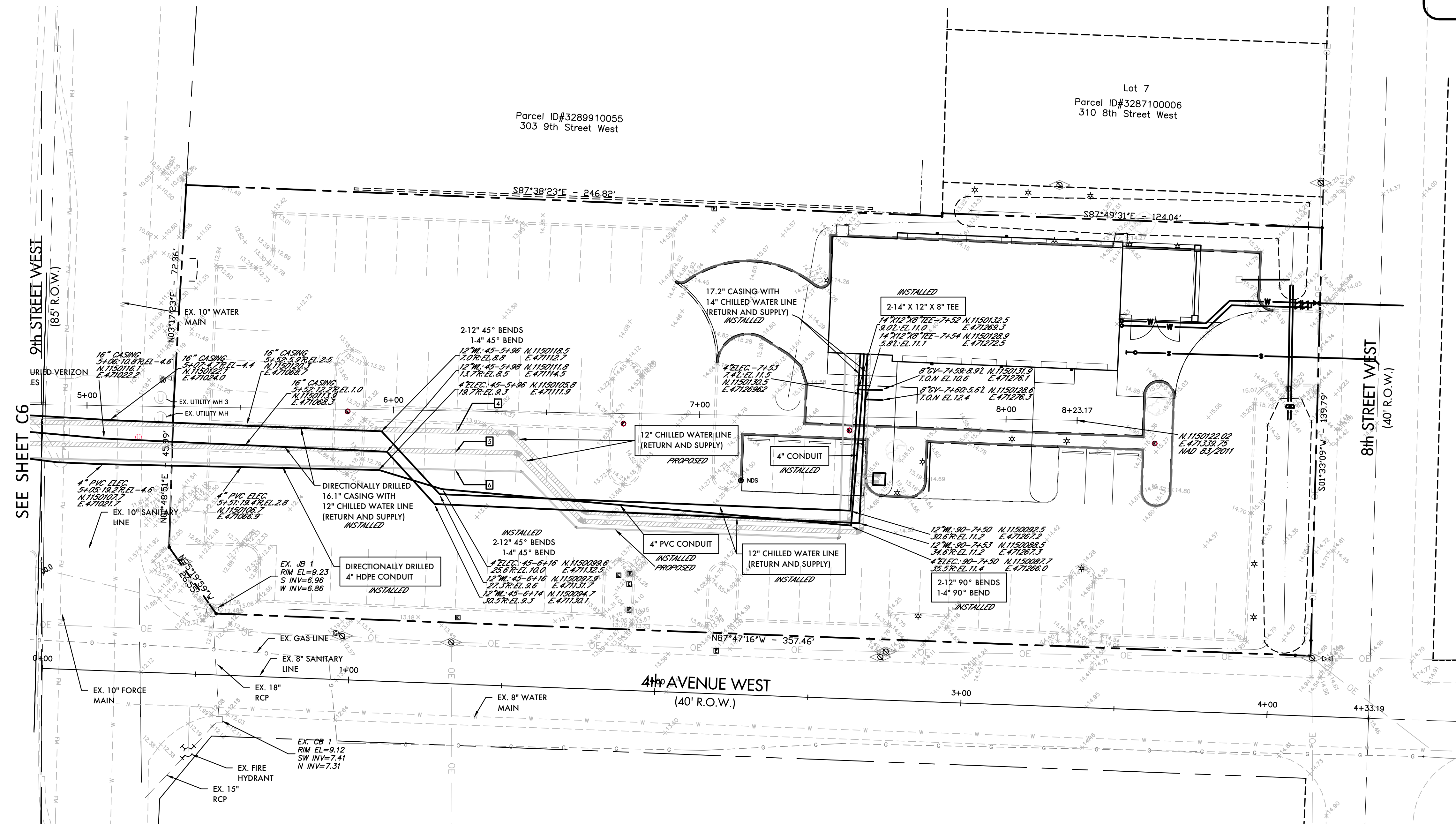
SHEET NUMBER  
**C8**

- RECORD DRAWING NOTES:**
- ALL RECORD DRAWING INFORMATION SHOWN IN ITALICS.
  - ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM. MANATEE COUNTY BENCHMARK Pld # DL1768 LOCATED AT N.1150998.08 E.469907.05 NAD 1983/2011 AND 27 29 56.7 (N) LAT. 082 34 28.5 (W) LONG. SEE SHEET C3 FOR PLAN VIEW LOCATION AND DETAILS. ELEVATION = 5.00.
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  - PROPOSED OVER HEAD CHILLED WATER LINE
  - PROPOSED OVER HEAD CONDUIT
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  - EX. WATER MAIN
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  - DIRECTIONAL DRILL PIT
  - \*SAWCUT AND REMOVE SURFACE. RESTORE TO ORIGINAL CONDITION UPON COMPLETION. REPLACE ASPHALT IN 3 LIFTS TO ALLOW CONTINUOUS 3/4" ASPHALT RESURFACING.
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  - EX. DRAINAGE
  - EX. GAS MAIN
  - EX. OVER HEAD ELECTRIC
  - EX. MANATEE COUNTY FIBER OPTIC CABLE
  - EX. VERIZON CABLE
  - EROSION CONTROL DEVICE (SEE DETAIL SHEET)
  - ASPHALT TO BE MILLED AND RESURFACED WITH 3/4" ASPHALT & RESURFACE TYPE S-1 ASPHALT. RESTORE STAMPS & CROSSWALKS IN ACCORDANCE WITH STRIPING TO BE RESTORED IN ITS CONDITION.

- NOTES**
- ALL EXISTING UTILITIES SHOWN WERE LOCATED USING BEST AVAILABLE RESOURCES. CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS.
  - CONTRACTOR TO COORDINATE PARKING LOT AND DRIVEWAY CLOSURES WITH MANATEE COUNTY AND/OR PROPERTY OWNER.
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**FPL Services, LLC**  
 Development & Construction  
 600 VILLAGE BLVD., SUITE 100  
 TAMPA, FLORIDA 33607  
 TEL: 305.552.4855  
 FAX: 305.899.2272  
 www.fpl.com

TO THE BEST OF MY KNOWLEDGE, THE PLANS AND SPECIFICATIONS SUBMITTED HERewith COMPLY WITH EXISTING INTERPRETATIONS AND PROVISIONS OF THE APPLICABLE BUILDING CODES. THIS DRAWING IS THE SOLE PROPERTY OF "FPL SERVICES, LLC" AND IS AN INSTRUMENT OF SERVICE NOT TO BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE EXPRESS WRITTEN PERMISSION OF FPL SERVICES, LLC.

I, NATHAN KRAGT, P.E. #69272, CERTIFY THAT I CURRENTLY HOLD AN ACTIVE LICENSE IN THE STATE OF FLORIDA AND AM COMPETENT THROUGH EDUCATION OR EXPERIENCE TO PROVIDE ENGINEERING SERVICES IN THE CIVIL DISCIPLINE CONTAINED IN THIS PLAN. I FURTHER CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY RESPONSIBLE CHARGE AS DEFINED IN CHAPTER 91G15-18.001 F.A.C. MOREOVER I CERTIFY THAT THE COMPANY OFFERING THE ENGINEERING SERVICES, "ZNS ENGINEERING, LC" HOLDS AN ACTIVE CERTIFICATE OF AUTHORIZATION #27476 TO PROVIDE THE ENGINEERING SERVICE.

**RECORD DRAWING OF CHILLED WATER LINES**  
 MANATEE COUNTY GOVERNMENT  
 DISTRICT COOLING PLANT  
 325 9TH STREET WEST  
 BRADENTON, FLORIDA 34205

FUNCTION	BY	DATE
DESIGNED:	MLC	04/01/15
CHECKED:	MF	04/01/15
REVISIONS	BY	DATE

DAC PROJECT NUMBER  
4542-94-000-300-897

CIVIL PLAN  
SHEET NUMBER  
**C9**

**ENGINEER'S CERTIFICATE**  
 I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND BASED ON THE CERTIFICATION PROVIDED BY THE SURVEYOR OF RECORD, THE IMPROVEMENTS DEPICTED HEREON HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. THE UNDERSIGNED ENGINEER IS NOT CERTIFYING THE ACCURACY OF THE DRAWINGS PREPARED BY THE SURVEYOR.

ZNS ENGINEERING, L.C.  
 BRADENTON, FLORIDA 34206  
 P.O. BOX 8448  
 DATE OF CERTIFICATION :04/03/2015

**SURVEYOR'S CERTIFICATE**  
 I HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN, SUPERIMPOSED UPON THE DESIGN CONSTRUCTION PLANS ARE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, AND BASED ON OBSERVED IMPROVEMENTS, A TRUE AND CORRECT REPRESENTATION OF THE IMPROVEMENTS AS SHOWN.

ZNS ENGINEERING, L.C.  
 P.O. BOX 8448  
 BRADENTON, FLORIDA 34206

DATE OF FIELD WORK: 03/17/15  
 DATE OF CERTIFICATION: 04/03/15

**ACRONYM LEGEND:**  
 L - LEFT  
 R - RIGHT  
 EL. - ELEVATION  
 WL - WATER LINE  
 GV - GATE VALVE  
 T.O.N. - TOP OF NUT  
 45 - 45° BEND  
 90 - 90° BEND  
 RED. - REDUCER

**PREPARED BY**  
**ZNS ENGINEERING**  
 ENGINEERS | PLANNERS | SURVEYORS | LANDSCAPE ARCHITECTS  
 201 56 AVENUE DRIVE EAST BRADENTON, FL 34208  
 EMAIL: ZNS@ZNSENGINEERING.COM | TELEPHONE: 941.748.8080 | FAX: 941.748.3316

OFF-SITE PLAN SHEET INDEX

<input checked="" type="checkbox"/> COVER SHEET	C-1	PHASE 1-8
<input type="checkbox"/> AERIAL PIPE LAYOUT PLAN	C-2	PHASE 1-8
<input checked="" type="checkbox"/> 13TH ST. W. CIVIL PLAN	C-3 THRU C-4	PHASE 5-8
<input checked="" type="checkbox"/> 3RD AVE. W. CIVIL PLAN	C-4 THRU C-5	PHASE 5-8
<input checked="" type="checkbox"/> 10th ST. W AND 4TH AVE. W. CIVIL PLAN	C-5 THRU C-7	PHASE 1-4
<input checked="" type="checkbox"/> MC ADMINISTRATION BLDG. CIVIL PLAN	C-8	PHASE 1-4
<input checked="" type="checkbox"/> CHILLER SITE CIVIL PLAN	C-9	PHASE 1-4
<input checked="" type="checkbox"/> 13TH ST. W. PLAN AND PROFILE	C-10	PHASE 5-8
<input checked="" type="checkbox"/> 3RD AVE. W. PLAN AND PROFILE	C-11	PHASE 5-8
<input type="checkbox"/> 10th ST. W. PLAN AND PROFILE	C-12	PHASE 1-4
<input type="checkbox"/> 4TH AVE. W. PLAN AND PROFILE	C-13	PHASE 1-4
<input type="checkbox"/> GENERAL NOTES	C-14	PHASE 1-8
<input type="checkbox"/> DETAIL SHEET	C-15 & C-15A	PHASE 1-8
<input type="checkbox"/> 10TH ST. W. MAINTENANCE OF TRAFFIC	C-16 THRU C-18	PHASE 1-4
<input type="checkbox"/> 4TH AVE. W. MAINTENANCE OF TRAFFIC	C--19	PHASE 5-8
<input type="checkbox"/> 3RD AVE W. & 13TH ST. W. MAINTENANCE OF TRAFFIC	C-20 & C-20A	PHASE 5-8
<input type="checkbox"/> SIGNAGE & STRIPING	C-21	PHASE 1-8

INCLUDED IN THIS SET

# RECORD DRAWINGS OF CHILLED WATER LINES

TO SERVE:

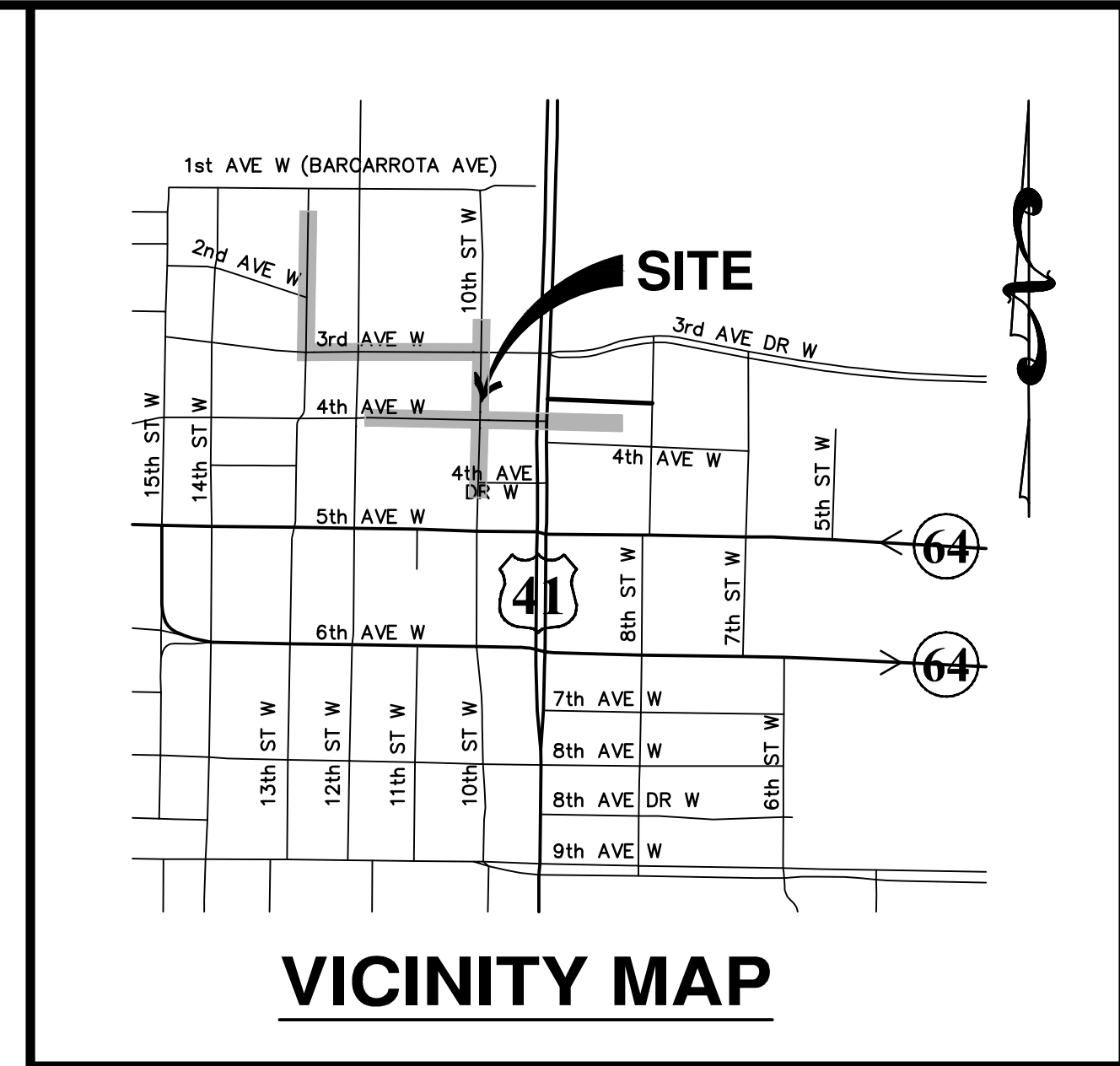
# MANATEE COUNTY DISTRICT COOLING PLANT

LOCATED IN:

SECTION 26, TOWNSHIP 34 SOUTH, RANGE 17 EAST  
CITY OF BRADENTON, FLORIDA

ZONED:

FLOOD ZONE: 'X'  
ZONING: 'T6'



VICINITY MAP

RECORD DRAWING NOTES:

1. ALL RECORD DRAWING INFORMATION SHOWN IN ITALICS.
2. ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM. MANATEE COUNTY BENCHMARK Pid # DL1768 LOCATED AT N.1150998.08 E.469907.05 NAD 1983/2011 AND 27 29 56.7 (N) LAT. 082 34 28.5 (W) LONG. SEE SHEET C3 FOR PLAN VIEW LOCATION AND DETAILS. ELEVATION = 5.00.
3. GRAPHICAL SYMBOLS OF UTILITIES ARE EXAGGERATED FOR CLARITY.
4. ALL VALVES NOTED ON CONSTRUCTION PLANS ARE AMERICAN FLOW CONTROL SERIES 2500.
5. ALL WATER MAINS WERE INSTALLED WITH (HDPE) SDR 11 MATERIAL.
6. ALL ASBUILT ELEVATIONS ARE TO THE ACTUAL TOP OF PIPE OR FITTING EXCEPT AT DIRECTIONAL BORE LOCATIONS WHERE CASINGS ARE NOTED. ASBUILT ELEVATIONS ARE TO THE TOP OF CASING AT THOSE PARTICULAR LOCATIONS.

## NOTES

1. THE CHILLER PLANT SITE IS CURRENTLY ZONED 'T6' AND IS OCCUPIED BY MANATEE COUNTY. A PARKING LOT OWNED BY MANATEE COUNTY.
2. THE SITE IS DESIGNATED AS FLOOD ZONE 'X' ON F.I.R.M. PANEL #12081C-0302E, DATED 03/17/2014, AND IS NOT LOCATED WITHIN A FLOODWAY.
3. THERE ARE NO KNOWN WELLS WITHIN THE BOUNDARIES OF THIS PLAN.
4. INFRASTRUCTURE CONSTRUCTION WILL COMMENCE NOVEMBER 2014.
5. SANITARY SEWER AND POTABLE WATER WILL BE CONSTRUCTED TO THE LATEST CITY OF BRADENTON STANDARDS AND PRIVATELY MAINTAINED.
6. SOLID WASTE DISPOSAL WILL BE PROVIDED BY CITY OF BRADENTON.
7. NOTIFY CITY OF BRADENTON PUBLIC WORK PRIOR TO THE INITIATION OF CONSTRUCTION. A PRE CONSTRUCTION INSPECTION OF THE SEDIMENTATION AND EROSION CONTROL (S&EC) DEVICES MAY BE REQUIRED AND WILL BE THE OPTION OF THE PUBLIC WORKS STAFF.
8. ELEVATIONS ARE BASED ON N.A.V.D. 1988 DATUM.

ENGINEER'S CERTIFICATE

I, THE UNDERSIGNED PROFESSIONAL ENGINEER, HEREBY CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, AND BASED ON THE CERTIFICATION PROVIDED BY THE SURVEYOR OF RECORD, THE IMPROVEMENTS DEPICTED HEREON HAVE BEEN CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLANS. THE UNDERSIGNED ENGINEER IS NOT CERTIFYING THE ACCURACY OF THE DRAWINGS PREPARED BY THE SURVEYOR.

ZNS ENGINEERING, L.C.  
BRADENTON, FLORIDA 34206  
P.O. BOX 9448  
DATE OF CERTIFICATION : 04/03/2015

NATHAN J. KRAGT P.E. #69272

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE RECORD DRAWINGS OF THE UTILITIES SHOWN, SUPERIMPOSED UPON THE DESIGN CONSTRUCTION PLANS ARE TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, AND BASED ON OBSERVED IMPROVEMENTS. A TRUE AND CORRECT REPRESENTATION OF THE IMPROVEMENTS AS SHOWN.

ZNS ENGINEERING, L.C.  
BRADENTON, FLORIDA 34206  
P.O. BOX 9448

DATE OF FIELD WORK: 03/17/15 DATE OF CERTIFICATION: 04/03/15

*J. N. Gatch*  
JAMES N. GATCH JR. P.S.M. #1235



PREPARED FOR:

B&I CONTRACTORS  
2701 PRINCE STREET  
FORT MYERS, FLORIDA 33916  
(239) 332-4646

PROJECT DATA:

JOB NAME: MANATEE COUNTY DISTRICT COOLING  
SITE ADDRESS: 323 9th STREET WEST, BRADENTON, FL 34205  
JOB NUMBER: 43737  
DATE: 7/1/2014

NATHAN J. KRAGT  
PROFESSIONAL ENGINEER #69272

SIGNATURE

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